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DAICEL CHIRAL TECHNOLOGIES (INDIA) PRIVATE LIMITED

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1	**Abacavir**	N6-Cyclopropyl-9H-Purin-2,6-diamine	NC1=NC(NC2CC2)=C3NC=NC3=N1	impurity	DCTI-C-1183	N6-cyclopropyl-9H-purine-2,6-diamine	120503-69-7	Abacavir Impurity	C8H10N6	190.21
2	**Abemaciclib**	LSN3181882 Impurity	CC(N1C2=CC(C3=NC(NC4=NC=C(CO)C=C4)=NC=C3F)=CC(F)=C2N=C1C)C	Metabolite	DCTI-C-3696	(6-((5-fluoro-4-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazol-6-yl)pyrimidin-2-yl)amino)pyridin-3-yl)methanol	1648707-16-7	NA	C21H20F2N6O	410.43
3		LSN3227716 Impurity	FC(C=NC(C1=CC(F)=C2N=C(N(C2=C1)C(C)C)C)=N3)=C3NC4=NC=C(CN5CCN(CC)CC5)C=C4	Metabolite	DCTI-C-3724	N-(5-((4-ethylpiperazin-1-yl)methyl)pyridin-2-yl)-5-fluoro-2-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazol-6-yl)pyrimidin-4-amine	NA	NA	C27H32F2N8	506.61
4		N-Nitroso N-desethyl Abemaciclib	CC(N1C2=CC(C3=NC(NC4=NC=C(CN5CCN(N=O)CC5)C=C4)=NC=C3F)=CC(F)=C2N=C1C)C	NDSRI	DCTI-C-3905	5-fluoro-4-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazol-6-yl)-N-(5-((4-nitrosopiperazin-1-yl)methyl)pyridin-2-yl)pyrimidin-2-amine	NA	Abemaciclib Nitroso Metabolite M2	C25H27F2N9O	507.55
5		N-Desethyl Abemaciclib DiHydrochloride	CC(N1C2=CC(C3=NC(NC4=NC=C(CN5CCNCC5)C=C4)=NC=C3F)=CC(F)=C2N=C1C)C.[2HCl]	Impurity	DCTI-C-3909	5-fluoro-4-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazol-6-yl)-N-(5-(piperazin-1-ylmethyl)pyridin-2-yl)pyrimidin-2-amine dihydrochloride	1231930-57-6(Free base)	Abemaciclib metabolite M2	C25H30Cl2F2N8 (HCl salt) C25H28F2N8 (Free base)	551.47 (HCl salt) 478.55 (Free base)
6		LSN3181878 Impurity	O=CC1=CN=C(C=C1)NC=2N=CC(F)=C(N2)C=3C=C(F)C=4N=C(N(C4C3)C(C)C)C	IMPURITY	DCTI-C-3644	6-((5-fluoro-4-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazol-6-yl)pyrimidin-2-yl)amino)nicotinaldehyde	1627082-92-1	na	C21H18F2N6O	408.41
7		Abiraterone Ethyl Ether	C[C@@]1(CC2)[C@](CC[C@]3(C)C(C4=CC=CN=C4)=CC[C@]35[H])([H])[C@@]5([H])CC=C1C[C@H]2OCC	Impurity	DCTI-C-244	3-((3S,8R,9S,10R,13S,14S)-3-ethoxy-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl)pyridine	NA	NA	C8H10N6	377.57

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8		Abiraterone Impurity 5	C[C@@]12[C@](CC=C2I)([H])[C@]3([H])CC=C4C[C@@H](O)CC[C@]4(C)[C@@]3([H])CC1	Impurity	DCTI-C-1717	(3S,8R,9S,10R,13S,14S)-17-iodo-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol	NA	Androsta-5,16-dien-3β-ol; 17-iodo- (7CI,8CI)(3β)-17-Iodoandrosta-5,16-dien-3-ol; 17-Iodoandrosta-5,16-diene-3β-ol	C19H27IO	398.32
9		Abiraterone Impurity 5	C[C@@]1(CC2)[C@](CC[C@]3(C)C(C4=CC=CN=C4)=CC[C@]35[H])([H])[C@@]5([H])CC=C1C[C@H]2OC	Impurity	DCTI-C-243	3-((3S,8R,9S,10R,13S,14S)-3-methoxy-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl)pyridine	1470276-23-3	NA	C25H33NO	363.55
10		Abiraterone Sulfate	O=S(O)(O[C@H]1CC[C@]2(C)[C@@]3([H])CC[C@]4(C)C(C5=CC=CN=C5)=CC[C@@]4([H])[C@]3([H])CC=C2C1)=O	metabolite	DCTI-C-293	(3S,8R,9S,10R,13S,14S)-10,13-dimethyl-17-(pyridin-3-yl)-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-3-yl hydrogen sulfate	1993430-25-3	NA	C24H31NO4S	429.58
11		Abiraterone Acetate Reduced Impurity	O[C@H]1CC[C@]2(C)[C@@]3([H])CC[C@]4(C)C(C5=CC=CN=C5)=CC[C@@]4([H])[C@]3([H])CCC2C1	metabolite	DCTI-C-710	(3β)-17-(pyridine-3-yl) androsta-16-ene-3-ol	219843-75-1	NA	C24H33NO	351.53
12		Abiraterone acetate reduced impurity	C[C@@]12C(CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC=C4C5=CN=CC=C5)C[C@@H](OC(C)=O)CC1	Impurity	DCTI-C-924	(3S,8R,9S,10S,13S,14S)-10,13-dimethyl-17-(pyridin-3-yl)-2,3,4,5,6,7,8,9,10,11,12,13,14,15-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl acetate	2141996-19-0	NA	C26H35NO2	393.57
13		Abiraterone acetate reduced epoxide impurity	CC(O[C@H]1CC[C@@]2(C)C(CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC5C4(C6=CN=CC=C6)O5)C1)=O	impurity	DCTI-C-1314	(4S,6aS,6bS,8aS,10aS,10bR)-6a,8a-dimethyl-8b-(pyridin-3-yl)hexadecahydro-1H-naphtho[2',1':4,5]indeno[1,2-b]oxiren-4-yl acetate	NA	NA	C26H35NO3	409.57

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14	**Abiraterone**	α-Epoxy Abiraterone Acetate	CC(O[C@H](C1)CC[C@@]2(C)C1=CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])C[C@H]5[C@@]4(O5)C6=CN=CC=C6)=O	impurity	DCTI-C-1238	(4S,6aR,6bS,8aS,8bS,9aS,10aS,10bR)-6a,8a-dimethyl-8b-(pyridin-3-yl)-3,4,5,6,6a,6b,7,8,8a,8b,9a,10,10a,10b-tetradecahydro-1H-naphtho[2',1':4,5]indeno[1,2-b]oxiren-4-yl acetate	2484719-26-6	NA	C26H33NO3	407.55
15		Abiraterone Dimer Impurity	C[C@]12C(C[C@@H](O)CC2)=CC[C@]3([H])[C@]1([H])CC[C@@]4(C)[C@@]3([H])CC(C5=CC[C@@]6([H])[C@]7([H])CC=C8C[C@@H](O)CC[C@]8(C)[C@@]7([H])CC[C@@]65C)=C4C9=CC=CN=C9	impurity	DCTI-C-1239	Androsta-5,16-dien-3-ol, 16-[(3β)-3-hydroxyandrosta-5,16-dien-17-yl]-17-(3-pyridinyl)-, (3β)-	186826-70-0	NA	C43H57NO2	619.93
16		Abiraterone propionate Impurity	C[C@]12C(C[C@@H](OC(CC)=O)CC2)=CC[C@]3([H])[C@]1([H])CC[C@@]4(C)[C@@]3([H])CC=C4C5=CN=CC=C5	impurity	DCTI-C-1218	(3S,8R,9S,10R,13S,14S)-10,13-dimethyl-17-(pyridin-3-yl)-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-3-yl propionate	1620323-43-4	NA	C27H35NO2	405.58
17		α-EPOXY ABIRATERONE ACETATE	C[C@@]12[C@](CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])C[C@]5([H])[C@@]4(C6=CN=CC=C6)O5)([H])C[C@@H](O)CC1	impurity	DCTI-C-1219	(2aS,4S,6aS,6bS,8aS,8bR,9aR,10aS,10bR)-6a,8a-dimethyl-8b-(pyridin-3-yl)hexadecahydro-1H-naphtho[2',1':4,5]indeno[1,2-b]oxiren-4-ol	219843-65-9	NA	C24H33NO2	367.53
18		β Epoxyabiraterone Acetate Impurity	CC(O[C@@H](CC[C@@]12C)CC1=CC[C@@]([C@]2([H])CC[C@@]34C)([H])[C@]3([H])C[C@@]5([H])[C@]4(C6=CC=CN=C6)O5)=O	Impurity	DCTI-C-2898	(4S,6aR,6bS,8aS,8bS,9aS,10aS,10bR)-6a,8a-dimethyl-8b-(pyridin-3-yl)-3,4,5,6,6a,6b,7,8,8a,8b,9a,10,10a,10b-tetradecahydro-1H-naphtho[2',1':4,5]indeno[1,2-b]oxiren-4-yl acetate	2484719-26-6	Abiraterone Impurity C	C26H33NO3	407.55

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19		Abiraterone Acetate Impurity	O[C@@H]1CC2=CC[C@@H]3[C@H](CC[C@]4(C)C(C5=CC=CN=C5)=CC[C@H]43)[C@]2(CC1)C	Metabolite	DCTI-A-021	(3S,8R,9S,10R,13S,14S)-10,13-dimethyl-17-(pyridin-3-yl)-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol	154229-19-3	CB 7598	C24H31NO	349.52
20		(3b-acetoxy-17-iodoandrosta-5,16-diene)(A52H) / Abiraterone	CC(O[C@H]1CC[C@]2(C)[C@@]3([H])CC[C@]4(C)C(I)=CC[C@@]4([H])[C@]3([H])CC=C2C1)=O	IMPURITY	DCTI-C-2425	(3S,8R,9S,10R,13S,14S)-17-iodo-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-3-yl acetate.	114611-53-9	na	C21H29IO2	440.37
21		Acalabrutinib Impurity-2	NC1=NC=CN2C1=C(C3=CC=C(C(NC4=NC=CC=C4)=O)C=C3)N=C2[C@H]5N(C(CC(C)=O)=O)CCC5	Impurity	DCTI-C-893	(S)-4-(8-amino-3-(1-(3-oxobutanoyl) pyrrolidin-2-yl) imidazo [1,5-a]pyrazin-1-yl)-N-(pyridin-2-yl)benzamide	NA	NA	C26H25N7O3	483.53
22		ACA-Benzoic acid impurity	NC1=NC=CN2C1=C(C3=CC=C(C(O)=O)C=C3)N=C2[C@H]4N(C(C#CC)=O)CCC4	Metabolite	DCTI-C-1085	(S)-4-(8-amino-3-(1-(but-2-ynoyl)pyrrolidin-2-yl)imidazo[1,5-a]pyrazin-1-yl)benzoic acid	NA	Acalabrutinib benzoic acid impurity	C21H19N5O3	389.42
23		Acalabrutinib Dibutynoyl Impurity 2	O=C(C#CC)N(CCC1)[C@@H]1C2=NC(C3=CC=C(C(NC4=NC=CC=C4)=O)C=C3)=C5N2C=CN6C5=NC(C)=CC6=O	impurity	DCTI-C-1124	(S)-4-(9-(1-(but-2-ynoyl)pyrrolidin-2-yl)-2-methyl-4-oxo-4H-imidazo[5',1':3,4]pyrazino[1,2-a]pyrimidin-11-yl)-N-(pyridin-2-yl)benzamide	NA	NA	C30H25N7O3	531.58

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24	Acalabrutinib	Acalabrutinib Impurity-1	NC1=NC=CN2C1=C(C3=CC=C(C(NC4=NC=CC=C4)=O)C=C3)N=C2C(CCCNC(C#CC)=O)=O	Metabolite	DCTI-C-813	4-(8-amino-3-(4-(but-2-ynamido)butanoyl)imidazo[1,5-a]pyrazin-1-yl)-N-(pyridin-2-yl)benzamide	2230757-47-6	NA	C26H23N7O3	481.52
25		ACA-dibutynoyl impurity	O=C(NC1=NC=CC=C1)C2=CC=C(C3=C4N(C([C@H]5N(C(C#CC)=O)CCC5)=N3)C=CN6C4=NC(C=C6C)=O)C=C2	impurity	DCTI-C-1014	(S)-4-(9-(1-(but-2-ynoyl)pyrrolidin-2-yl)-4-methyl-2-oxo-2H-imidazo[5',1':3,4]pyrazino[1,2-a]pyrimidin-11-yl)-N-(pyridin-2-yl)benzamide	2412166-56-2	NA	C30H25N7O3	531.58
26		ACA-N-oxide impurity 2	NC1=[N+]([O-])C=CN2C1=C(C3=CC=C(C(NC4=NC=CC=C4)=O)C=C3)N=C2[C@H]5N(C(C#CC)=O)CCC5	impurity	DCTI-C-1015	(S)-8-amino-3-(1-(but-2-ynoyl)pyrrolidin-2-yl)-1-(4-(pyridin-2-ylcarbamoyl)phenyl)imidazo[1,5-a]pyrazine 7-oxide	NA	NA	C26H23N7O3	481.52
27		Acalabrutinib dimer impurity	O=C(NC1=NC=CC=C1)C(C=C2)=CC=C2C3=CC=C(C(NC4=NC=CC=C4)=O)C=C3	impurity	DCTI-C-1396	N4,N4'-di(pyridin-2-yl)-[1,1'-biphenyl]-4,4'-dicarboxamide	723260-09-1	NA	C24H18N4O2	394.43

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28		Acalabrutinib R-isomer	NC1=NC=CN2C1=C(C3=CC=C(C(NC4=NC=CC=C4)=O)C=C3)N=C2[C@@H]5N(C(C#CC)=O)CCC5	impurity	DCTI-C-1137	(R)-4-(8-amino-3-(1-(but-2-ynoyl)pyrrolidin-2-yl)imidazo[1,5-a]pyrazin-1-yl)-N-(pyridin-2-yl)benzamide	1952316-43-6	NA	C26H23N7O2	465.52
29		ACA-N-Oxide impurity-1	NC1=NC=CN2C1=C(C3=CC=C(C(NC4=[N+]([O-])C=CC=C4)=O)C=C3)N=C2[C@H]5N(C(C#CC)=O)CCC5	impurity	DCTI-C-1016	(S)-2-(4-(8-amino-3-(1-(but-2-ynoyl)pyrrolidin-2-yl)imidazo[1,5-a]pyrazin-1-yl)benzamido)pyridine 1-oxide	NA	NA	C26H23N7O3	481.52
30		Acalabrutinib M16 Metabolite	NC1=NC=CN2C1=C(C3=CC=C(C(NC4=CC=CC=N4)=O)C=C3)N=C2C(CCCNC(C#CC)=O)O	Metabolite	DCTI-C-2679	4-(8-amino-3-(4-(but-2-ynamido)-1-hydroxybutyl)imidazo[1,5-a]pyrazin-1-yl)-N-(pyridin-2-yl)benzamide	NA	NA	C26H25N7O3	483.53

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31		Acalabrutinib M45 Metabolite (mixture of diastereomers)	O=C(N1CCC[C@H]1C2=NC(C3=CC=C(C(NC4=CC=CC=N4)=O)C=C3)=C5N2C=CN=C5N)CC(O)C	Metabolite	DCTI-C-2554	4-(8-amino-3-((2S)-1-(3-hydroxybutanoyl)pyrrolidin-2-yl)imidazo[1,5-a] pyrazin-1-yl)-N-(pyridin-2-yl)benzamide	NA	NA	C26H27N7O3	485.54
32		Acalabrutinib R Isomer Intermediate Impurity	BrC1=C2N(C([C@@H]3N(C(OCC4=CC=CC=C4)=O)CCC3)=N1)C=CN=C2N	Impurity	DCTI-C-2937	benzyl (R)-2-(8-amino-1-bromoimidazo[1,5-a]pyrazin-3-yl)pyrrolidine-1-carboxylate	2198380-46-8	1-Pyrrolidinecarboxylic acid, 2-(8-amino-1-bromoimidazo[1,5-a]pyrazin-3-yl)-, phenylmethyl ester, (2R)	C18H18BrN5O2	416.28
33	**Acenocoumarol**	(R)-Acenocoumarol	OC(C1=CC=CC=C1O2)=C([C@@H](C3=CC=C([N+]([O-])=O)C=C3)CC(C)=O)C2=O	Impurity	DCTI-C-729	(R)-4-hydroxy-3-(1-(4-nitrophenyl)-3-oxobutyl)-2H-chromen-2-one	66556-77-2	NA	C19H15NO6	353.33
34		(S)-Acenocoumarol	OC(C1=CC=CC=C1O2)=C([C@H](C3=CC=C([N+]([O-])=O)C=C3)CC(C)=O)C2=O	Impurity	DCTI-C-730	(S)-4-hydroxy-3-(1-(4-nitrophenyl)-3-oxobutyl)-2H-chromen-2-one	66556-78-3	NA	C19H15NO6	353.33
35	**Acebutolol**	N-Nitroso-Acebutolol	CC(C)N(N=O)CC(O)COC1=CC=C(NC(CCC)=O)C=C1C(C)=O	NDSRI	DCTI-C-3912	N-(3-acetyl-4-(2-hydroxy-3-(isopropyl(nitroso)amino)propoxy)phenyl)butyramide	NA	N-Nitroso-Acebutolol (Mixture of Isomers)	C18H27N3O5	365.43
36		Acetyl Salicylic Acid EP Impurity-B	OC(C1=CC(C(O)=O)=CC=C1O)=O	impurity	DCTI-C-1876	4-hydroxyisophthalic acid	NA	4-Hydroxy-1,3-benzenedicarboxylic acid (ACI); Isophthalic acid, 4-hydroxy- (6CI, 7CI, 8CI); 4-Hydroxy-m-phthalic acid; 4-Hydroxyisophthalic acid	C8H6O5	182.13
37		Acetyl Salicylic Acid EP Impurity-C	OC(C1=CC=CC=C1O)=O	impurity	DCTI-C-1877	2-hydroxybenzoic acid	NA	2-Hydroxybenzoic acid; Salicylic acid; 2-Carboxyphenol; 2-Hydroxybenzenecarboxylic acid	C7H6O3	138.12

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38	acetylsalicylic acid (Aspirin impurities)	Acetyl Salicylic Acid EP Impurity-E	O=C(OC1=C(C(O)=O)C=CC=C1)C2=CC=CC=C2O	impurity	DCTI-C-1878	2-((2-hydroxybenzoyl)oxy)benzoic acid	NA	Salicylic acid, salicylate (6CI); 2-((2-Hydroxybenzoyl)oxy)benzoi cacid, 2-(2-Hydroxy benzoyl)oxybenzoic acid, 2-(2-Hydroxybenzoyloxy)benzoic acid, 2-Hydroxybenzoic	C14H10O5	258.23
39		2-acetoxybenzoic 2-hydroxybenzoic anhydride	CC(OC1=C(C(OC(C2=C(O)C=CC=C2)=O)=O)C=CC=C1)=O	Impurity	DCTI-C-1782	2-acetoxybenzoic 2-hydroxybenzoic anhydride	NA	NA	C16H12O6	300.27
40		Acetyl Salicylic Acid EP Impurity-F	CC(OC1=C(C(OC(C2=C(OC(C)=O)C=CC=C2)=O)=O)C=CC=C1)=O	impurity	DCTI-C-1879	2-acetoxybenzoic anhydride	NA	Benzoic acid, 2-(acetyloxy)-, anhydride (9CI); Salicylic acid acetate, anhydride (8CI); Salicylic anhydride, diacetate (6CI, 7CI); 2-(Acetyloxy)benzoyl 2-(acetyloxy)benzoate; 2-Acetoxybenzoic anhydride; Acetylsalicylic acid anhydride	C18H14O7	342.3
41		Methyl 5-acetylsalicylate	CC(C1=CC=C(O)C(C(OC)=O)=C1)=O	impurity	DCTI-C-2089	methyl 5-acetyl-2-hydroxybenzoate	16475-90-4	5-Acetyl-2-hydroxy-benzoic Acid Methyl Ester; Methyl 2-Hydroxy-5-acetylbenzoate; Methyl 3-Acetyl-6-hydroxybenzoate; Methyl 5-Acetyl-2-hydroxybenzoate; Methyl 5-Acetylsalicylate; NSC 67867.	C10H10O4	194.19
42		Carboxy Acyclovir Imp INH	O=C1C2=C(N(COCC(O)=O)C=N2)N=C(N)N1	Impurity	DCTI-C-103	2-((2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy)acetic acid	80685-22-9	Acyclovir Acid; CMMG	C8H9N5O4	239.19
43		Acyclovir Impurity A	O=C1C2=C(N(COCCOC(C)=O)C=N2)N=C(N)N1	impurity	DCTI-C-1958	2-((2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy)ethyl acetate	102728-64-3	O-Acetylacyclovir; Aciclovir USP Related Compound A; Acyclovir Acetate; 9-[[2-(Acetyloxy)ethoxy]methyl]-2-amino-1,9-dihydro-6H-purin-6-one (ACI); 9-(2-Acetoxyethoxymethyl)guanine	$C_{10}H_{13}N_5O_4$	267.25

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44	Acyclovir	2-(acetyloxymethoxy)ethoxy methyl acetate	CC(OCOCCOCOC(C)=O)=O	Impurity	DCTI-C-769	(ethane-1,2-diylbis(oxy))bis(methylene) diacetate	90114-17-3	NSC 57560	C8H14O6	206.19
45		Phenyl N-ethyl Carbamate	CCNC(OC1=CC=CC=C1)=O	impurity	DCTI-C-1260	phenyl ethylcarbamate	17576-39-5	Ethylcarbamic acid phenyl ester	C9H11NO2	165.19
46		Acyclovir EP Impurity-K	O=C1NC(NCNC2=NC3=C(C(N2)=O)N=CN3COCCO)=NC4=C1N=CN4COCCO	Impurity	DCTI-C-814	2,2'-(methylenebis(azanediyl))bis(9-((2-hydroxyethoxy)methyl)-1,9-dihydro-6H-purin-6-one)	NA	NA	C17H22N10O6	462.43
47		Acyclovir L-Alaninate	C[C@H](N)C(OCCOCN1C=NC2=C1NC(N)=NC2=O)=O.Cl	impurity	DCTI-C-971	2-((2-amino-6-oxo-3,6-dihydro-9H-purin-9-yl)methoxy)ethyl L-alaninate hydrochloride	84499-63-8	NA	C11H17ClN6O4	332.75
48	Adamantanamine	Adamantanamine dimer	[C@@H]1(C2)C[C@@](CC2C3)(N[C@@]4(C5)CC6C[C@@H](C4)C[C@@H]5C6)C[C@H]3C1	impurity	DCTI-C-1799	Di(adamantan-1-yl)amine	NA	NA	C20H31N	285.48
49	Adenine	2-Chloropropyl Adenine	NC1=C2C(N(CC(C)Cl)C=N2)=NC=N1	Impurity	DCTI-C-344	9-(2-chloropropyl)-9H-purin-6-amine	50615-40-2	NA	C8H10ClN5	211.65
50		2- Bromopropyl Adenine	NC1=C2C(N(CC(C)Br)C=N2)=NC=N1	Impurity	DCTI-C-345	9-(2-bromopropyl)-9H-purin-6-amine	NA	NA	C8H10BrN5	256.11

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
51	Adenosine	2-Amino-2′-deoxy-2′,2′-dimethyl-adenosine	NC1=C2N=CN([C@H]3C(C)(C)[C@H](O)[C@@H](CO)O3)C2=NC(N)=N1	impurity	DCTI-C-1959	(2R,3S,5R)-5-(2,6-diamino-9H-purin-9-yl)-2-(hydroxymethyl)-4,4-dimethyltetrahydrofuran-3-ol	2080436-77-5	Adenosine Impurity-27	C12H18N6O3	294.32
52		(2R, 3R, 4S, 5S)-2-(6-(methylamino)-9H-purin-9-yl)-5-((methylthio)methyl)tetrahydrofuran-3,4-diol	O[C@@H]([C@H]1O)[C@@H](CSC)O[C@H]1N2c3c([N]C2)c(NC)ncn3	impurity	DCTI-C-1863	: (2R, 3R, 4S, 5S)-2-(6-(methylamino)-9H-purin-9-yl)-5-((methylthio)methyl)tetrahydrofuran-3,4-diol	NA	N-methyl-5'-S-methyl-5'-thio-adenosine	C12H17N5O3S	311.36
53		Adefovir dipivoxil Impurity-1	O=P(OCOC(C(C)(C)C)=O)(OCOC(C(C)(C)C)=O)COCCN1C2=NC=NC(NC(C(C)(C)C)=O)=C2N=C1	impurity	DCTI-C-1431	((((2-(6-pivalamido-9H-purin-9-yl)ethoxy)methyl)phosphoryl)bis(oxy))bis(methylene) bis(2,2-dimethylpropanoate)	1215101-40-8	NA	C25H40N5O9P	585.59
54		9-(2-Hydroxy ethyl) adenine	NC1=C2C(N(CCO)C=N2)=NC=N1	Impurity	DCTI-C-1353	6-Amino-9-(2-hydroxyethyl)purine	707-99-3	NA	C7H9N5O	179.18
55		Adefovir Dipivoxil Dimer	O=P(OCOC(C(C)(C)C)=O)(OCOC(C(C)(C)C)=O)COCCN(C=N1)C2=C1C(NCNC3=NC=NC4=C3N=CN4CCOCP(OCOC(C(C)(C)C)=O)(OCOC(C(C)(C)C)=O)=O)=NC=N2	Impurity	DCTI-C-1452	(((((((methylenebis(azanediyl))bis(9H-purine-6,9-diyl))bis(ethane-2,1-diyl))bis(oxy))bis(methylene))bis(oxo-l5-phosphanetriyl))tetrakis(oxy))tetrakis(methylene) tetrakis(2,2-dimethylpropanoate)	323201-05-4	NA	C41H64N10O16P2	1014.96

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56	Adefovir	Adefovir Dipivoxil N6-Hydroxy methyl impurity	OCNC1=NC=NC2=C1N=CN2CCOCP(OCOC(C(C)(C)C)=O)(OCOC(C(C)(C)C)=O)=O	Impurity	DCTI-C-736	((((2-(6-((hydroxymethyl)amino)-9H-purin-9-yl)ethoxy)methyl)phosphoryl)bis(oxy))bis(methylene) bis(2,2-dimethylpropanoate)	323201-04-3	NA	C21H34N5O9P	531.5
57		Adefovier Dipivoxil Impurity-5	CC(C)(C)C(OCOP(O)(COCCN1C=NC2=C(NCO)N=CN=C12)=O)=O	Impurity	DCTI-C-798	((hydroxy((2-(6-((hydroxymethyl)amino)-9H-purin-9-yl)ethoxy)methyl)phosphoryl)oxy)methyl pivalate	NA	NA	C15H24N5O7P	417.36
58		Adefovir Tripivoxil Dimer Diethylamine salt	O=P(OCOC(C(C)(C)C)=O)(O)COCCN(C=N1)C2=C1C(NCNC3=NC=NC4=C3N=CN4CCOCP(OCOC(C(C)(C)C)=O)(OCOC(C(C)(C)C)=O)=O)=NC=N2.CCNCC	impurity	DCTI-C-1105	Diethylamine ((((2-(6-((((9-(2-((hydroxy((pivaloyloxy)methoxy)phosphoryl)methoxy)ethyl)-9H-purin-6-yl)amino)methyl)amino)-9H-purin-9-yl)ethoxy)methyl)phosphoryl)bis(oxy))bis(methylene) bis(2,2-dimethylpropanoate)	Na	NA	C35H54N10O14P2 (Free base) C39H65N11O14P2 (Salt)	900.82 (Free base) 973.96 (Salt)
59	Adrenaline	Adrenaline Impurity - F	OC1=C(O)C=CC([C@@H](S(=O)(O)=O)CNC)=C1	Impurity	DCTI-C-024	(R)-1-(3,4-dihydroxyphenyl)-2-(methylamino)ethane-1-sulfonic acid	78995-75-2	NA	C9H13NO5S	247.27

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60		Adrenaline Impurity 12 Acetate Salt	O=C(C1=CC=C(O)C(O)=C1)CN(C)C.CC([O-])=O	Impurity	DCTI-C-3290	1-(3,4-dihydroxyphenyl)-2-(dimethylamino)ethan-1-one, acetate salt	150-10-7(Free Base)	NA	Free Base: C10H13NO3;Acetate Salt: C12H16NO5	Free Base:195.22; Acetate Salt:254.26
61	Afatinib	4-Hydroxy 4-Dedimethylamino Afatinib	OC/C=C/C(NC1=CC2=C(N=CN=C2C=C1O[C@@H]3COCC3)NC4=CC(Cl)=C(F)C=C4)=O	Impurity	DCTI-C-601	(S,E)-N-(4-((3-chloro-4-fluorophenyl)amino)-7-((tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-4-hydroxybut-2-enamide	2121530-37-6	NA	C22H20ClFN4O4	458.87
62		Afatinib Impurity E	ClC1=CC(NC2=NC=NC3=CC(O[C@@H]4COCC4)=C(C=C23)N5C(CCC5O)=O)=CC=C1F	impurity	DCTI-C-1960	1-(4-((3-chloro-4-fluorophenyl)amino)-7-(((S)-tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-5-hydroxypyrrolidin-2-one	2223677-58-3	NA	C22H20ClFN4O4	458.87
63		Afatinib Impurity B	NC1=CC2=C(N=CN=C2C=C1O[C@@H]3COCC3)NC4=CC(Cl)=C(F)C=C4	Impurity	DCTI-C-602	(S)-N4-(3-chloro-4-fluorophenyl)-7-((tetrahydrofuran-3-yl)oxy)quinazoline-4,6-diamine	314771-76-1	NA	C18H16ClFN4O2	374.8
64		Afatinib Bis-dimethylamino Impurity	O=C(CC(CN(C)C)N(C)C)NC1=CC2=C(C=C1O[C@H]3CCOC3)N=CN=C2NC4=CC(Cl)=C(F)C=C4	impurity	DCTI-C-1097	N-(4-((3-chloro-4-fluorophenyl)amino)-7-(((S)-tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-3,4-bis(dimethylamino)butanamide	2414260-31-2	Butanamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[[(3S)-tetrahydro-3-furanyl]oxy]-6-quinazolinyl]-3,4-bis(dimethylamino)-	C26H32ClFN6O3	531.03

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65		2-Hydroxy 3-dimethylamino Afatinib Impurity	CC(N(C)C)C(O)C(NC1=CC2=C(NC3=CC=C(F)C(Cl)=C3)N=CN=C2C=C1O[C@@H]4COCC4)=O	Impurity	DCTI-C-1454	N-(4-((3-chloro-4-fluorophenyl)amino)-7-(((S)-tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-3-(dimethylamino)-2-hydroxybutanamide	NA	Afatinib Impurity AFT-8	C24H27ClFN5O4	503.95
66		N-(4-((3-chloro-4-fluorophenyl)amino)-7-(((S)-tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-4-(dimethylamino)-3-hydroxybutanamide	O=C(CC(CN(C)C)O)NC1=CC2=C(C=C1O[C@H]3CCOC3)N=CN=C2NC4=CC(Cl)=C(F)C=C4	Metabolite	DCTI-C-1098	N-(4-((3-chloro-4-fluorophenyl)amino)-7-(((S)-tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-4-(dimethylamino)-3-hydroxybutanamide	2323570-72-3	Afatinib Impurity AFT-8; 3-Hydroxy Afatinib Impurity / 3-Hydroxy Afatinib Impurity	C24H27ClFN5O4	503.95
67		7-Desmethyl Agomelatine	CC(NCCC1=C2C=C(O)C=CC2=CC=C1)=O	Metabolite	DCTI-A-023	N-(2-(7-hydroxynaphthalen-1-yl)ethyl)acetamide	152302-45-9	NA	C14H15NO2	229.28
68		3-Hydroxy Agomelatine	CC(NCCC1=C2C=C(OC)C=CC2=CC(O)=C1)=O	Metabolite	DCTI-A-045	N-(2-(3-hydroxy-7-methoxynaphthalen-1-yl)ethyl)acetamide	166526-99-4	S 21540	C15H17NO3	259.31
69		benzyl ((2R)-1-((1-(dimethoxyphosphoryl)ethyl)amino)-1-oxopropan-2-yl)carbamate	C[C@@H](NC(OCC1=CC=CC=C1)=O)C(NC(C)P(OC)(OC)=O)=O	Impurity	DCTI-C-1455	benzyl ((2R)-1-((1-(dimethoxyphosphoryl)ethyl)amino)-1-oxopropan-2-yl)carbamate.	NA	Alafosfalin Impurity	$C_{15}H_{23}N_2O_6P$	358.33
70		((S)-1-((S)-2-aminopropanamido)ethyl)phosphonoc acid	C[C@H](P(O)(O)=O)NC([C@@H](N)C)=O	Impurity	DCTI-C-1543	benzyl ((2R)-1-((1-(dimethoxyphosphoryl)ethyl)amino)-1-oxopropan-2-yl)carbamate.	66023-94-7	Alafosfalin-SS-Diastereomer	$C_5H_{13}N_2O_4P$	196.14

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71	**Alafosfalin**	(1-((S)-2-aminopropanamido)ethyl)phosphonic acid	C[C@H](N)C(NC(C)P(O)(O)=O)=O	Impurity	DCTI-C-1544	(1-((S)-2-aminopropanamido)ethyl)phosphonic acid	NA	NA	$C_5H_{13}N_2O_4P$	196.14
72		benzyl ((2S)-1-((1-(dimethoxyphosphoryl)ethyl)amino)-1-oxopropan-2-yl)carbamate	O=C(N[C@@H](C)C(NC(C)P(OC)(OC)=O)=O)OCC1=CC=CC=C1	Impurity	DCTI-C-1545	benzyl ((2S)-1-((1-(dimethoxyphosphoryl)ethyl)amino)-1-oxopropan-2-yl)carbamate	NA	Alafosfalin intermediate/ Alafosfalin impurity	$C_{15}H_{23}N_2O_6P$	358.33
73		L-Alanyl-L-1aminoethylphosponic acid	N[C@@H](C)C(N[C@@H](C)P(O)(O)=O)=O	Impurity	DCTI-C-1546	((R)-1-((S)-2-aminopropanamido)ethyl)phosphonic acid	60668-24-8	NA	$C_5H_{13}N_2O_4P$	196.14
74		Albendazole impurity (Albendazole EP Impurity-H)	O=C(OC)NC1=NC2=CC=C(SC(C)(C)CC(C)=O)C=C2N1	Impurity	DCTI-C-254	methyl (6-((2-methyl-4-oxopentan-2-yl)thio)-1H-benzo[d]imidazol-2-yl)carbamate	NA	NA	C15H19N3O3S	321.4
75		Albendazole sulfoxide (Albendazole EP impurity B)	CCCS(C1=CC=C(N=C(NC(OC)=O)N2)C2=C1)=O	Metabolite	DCTI-C-255	methyl (6-(propylsulfinyl)-1H-benzo[d]imidazol-2-yl)carbamate	54029-12-8	RS 8852; Ricobendazole; Rycobendazole	C12H15N3O3S	281.33
76		Albendazole sulfone (Albendazole EP impurity C)	CCCS(C1=CC=C(N=C(NC(OC)=O)N2)C2=C1)(=O)=O	Metabolite	DCTI-C-256	methyl (6-(propylsulfonyl)-1H-benzo[d]imidazol-2-yl)carbamate	75184-71-3	NA	C12H15N3O4S	297.33
77		Amino Albendazole Sulfone (Albendazole EP Impurity D)	CCCS(C1=CC=C(NC(N)=N2)C2=C1)(=O)=O	Metabolite	DCTI-C-289	5-(propylsulfonyl)-1H-benzo[d]imidazol-2-amine	80983-34-2	SKF 81038	C10H13N3O2S	239.29

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78	Albendazole	Amino Albendazole (Albendazole EP Impurity A)	CCCSC1=CC=C(NC(N)=N2)C2=C1	Impurity	DCTI-C-290	5-(propylthio)-1H-benzo[d]imidazol-2-amine	80983-36-4	NA	C10H13N3S	207.3
79		Albendazole EP Impurity F	O=C(OC)NC1=NC2=CC=C(SC)C=C2N1	Impurity	DCTI-C-291	methyl (6-(methylthio)-1H-benzo[d]imidazol-2-yl)carbamate	80983-45-5	NA	C10H11N3O2S	237.28
80		Albendazole EP Impurity E	O=C(OC)NC1=NC2=CC=CC=C2N1	Impurity	DCTI-C-292	methyl (1H-benzo[d]imidazol-2-yl)carbamate	10605-21-7	Carbendazim	C9H9N3O2	191.19
81		ABZ Diamine Impurity	CCCSC1=CC(N)=C(N)C=C1	Impurity	DCTI-C-489	4-(propylsulfanyl)-benzene-1,2-diamine; 4-(propylthio)benzene-1,2-diamine	66608-52-4	Albendazole Impurity 1	C9H14N2S	182.29
82		3-Nitro-4-thiocyano aniline	NC1=CC([N+]([O-])=O)=C(SC#N)C=C1	Impurity	DCTI-C-676	3-nitro-4-thiocyanatoaniline	23153-15-3	NA	C7H5N3O2S	195.2
83		4-Nitro-2-thiocyano-aniline	NC1=C(SC#N)C=C([N+]([O-])=O)C=C1	Impurity	DCTI-C-677	4-nitro-2-thiocyanatoaniline	NA	NA	C7H5N3O2S	195.2
84	**Alizapride**	Alizapride Impurity D	O=C(C1=C(OC)C=C(NN=N2)C2=C1)OC	Impurity	DCTI-C-2991	methyl 6-methoxy-1H-benzo[d][1,2,3]triazole-5-carboxylate	59338-86-2	Methyl 6-methoxy-1H-benzotriazole-5-carboxylate; Methyl 6-methoxybenzotriazole-5-carboxylate	C9H9N3O3	207.19
85		Alizapride Impurity E	O=C(OC)C1=CC([N+]([O-])=O)=C(N)C=C1OC	Impurity	DCTI-C-2992	methyl 4-amino-2-methoxy-5-nitrobenzoate	59338-84-0	NA	C9H10N2O5	226.19

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86		Alizapride Impurity C	O=C(C1=C(OC)C=C(NN=N2)C2=C1)NCC3[N+](CC=C)([O-])CCC3	Impurity	DCTI-C-3104	1-allyl-2-((6-methoxy-1H-benzo[d][1,2,3]triazole-5-carboxamido)methyl)pyrrolidine 1-oxide	1213268-38-2	Alizapride N-oxide; 6-Methoxy-N-[[1-oxido-1-(2-propen-1-yl)-2-pyrrolidinyl]methyl]-1H-benzotriazole-5-carboxamide	C16H21N5O3	331.38
87	Almotriptan	Almotriptan Related Compound D	O=S(CC1=CC2=C(NC=C2CC[N+](C)([O-])C)C=C1)(N3CCCC3)=O	Metabolite	DCTI-C-1432	N,N-dimethyl-2-(5-((pyrrolidin-1-ylsulfonyl)methyl)-1H-indol-3-yl)ethan-1-amine oxide	603137-43-5	NA	C17H25N3O3S	351.47
88		Almotriptan EP impurity F TFA salt	CC(N(C)CCC1=CNC2=C1C=C(CS(=O)(N3CCCC3)=O)C=C2)C.O=C(O)C(F)(F)F	Impurity	DCTI-C-2810	N-methyl-N-(2-(5-((pyrrolidin-1-ylsulfonyl)methyl)-1H-indol-3-yl)ethyl)propan-2-amine 2,2,2-trifluoroacetate	2749821-93-8 (Free Base)	Almotriptan Isopropyl Impurity	C21H30F3N3O4S (TFA Salt)C19H29N3O2S (Free Base)	477.54(TFA Salt)363.52 (Free Base)
89		Almotriptan EP impurity D TFA Salt	NCCC1=CNC2=C1C=C(CS(=O)(N3CCCC3)=O)C=C2.OC(C(F)(F)F)=O	Impurity	DCTI-C-2843	2-(5-((pyrrolidin-1-ylsulfonyl)methyl)-1H-indol-3-yl)ethan-1-amine	181178-24-5 (free base)	Almotriptan USP RC B; Didesmethyl Almotriptan	C15H21N3O2S(Free Base); C17H22F3N3O4S (Salt)	307.41 (Free base); 421.44 (Salt)
90		N-nitroso-desmethyl-almotriptan	O=NN(CCC(C1=C2)=CNC1=CC=C2CS(=O)(N3CCCC3)=O)C	NDSRI	DCTI-C-3344	N-methyl-N-(2-(5-((pyrrolidin-1-ylsulfonyl)methyl)-1H-indol-3-yl)ethyl)nitrous amide	NA	NA	C16H22N4O3S	350.44
91	**Alogliptin**	Alogliptin Benzoate S-Isomer	OC(C1=CC=CC=C1)=O.O=C(N(C2=O)C)C=C(N3C[C@H](CCC3)N)N2CC4=C(C=CC=C4)C#N	Impurity	DCTI-C-3038	(S)-2-((6-(3-aminopiperidin-1-yl)-3-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)methyl)benzonitrile benzoate	1638544-64-5	(S)-Alogliptin Benzoate	C18H21N5O2 (Free base) C18H21N5O2. C7H6O2 (Benzoate salt)	339.40 (Free base) 461.52 (Benzoate salt)

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92	Alcaftadine	Alcaftadine Impurity 2	O=C(C1=NC=CN1CCC2=CC=CC=C2)C3CCN(C)CC3.Cl	impurity	DCTI-C-1397	(1-methylpiperidin-4-yl)(1-phenethyl-1H-imidazol-2-yl)methanone hydrochloride	1629676-26-1	NA	C18H23N3O	297.4
93		Alcaftadine N-demethylated	[H]C(C1=CN=C2/C(C3=CC=CC=C3CCN21)=C4CCNCC/4)=O	Impurity	DCTI-C-1705	11-(piperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a] azepine-3-carbal dehyde	NA	NA	C18H19N3O	293.37
94		Alcaftadine Impurity 3	CN(CC/1)CCC1=C2C3=CC=CC=C3CCN4C/2=NC=C4	impurity	DCTI-C-1398	11-(1-methylpiperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a]azepine	147083-36-1	NA	C18H21N3	279.39
95		Alcaftadine Metabolite-1 (R109541)	O=C(O)C1=CN=C(N1CCC2=C/3C=CC=C2)C3=C4CCNCC/4.O=CC(F)(F)F	Metabolite	DCTI-A-228	11-(piperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a]azepine-3-carboxylic acid TFA salt	NA	NA	C20H19F3N3O3	406.39
96		Alcaftadine Metabolite-2 (R090692)	O=C(C1=CN=C2N1CCC3=CC=CC=C3/C2=C4CCN(C)CC\4)[O-].[Na+]	Metabolite	DCTI-A-229	11-(1-methylpiperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a]azepine-3-carboxylic acid sodium salt	NA	NA	C19H21N3O2	323.4
97		Alcaftadine Metabolite-3 (R087314)	OCC1=CN=C(N1CCC2=C/3C=CC=C2)C3=C4CCN(C)CC/4	Metabolite	DCTI-A-230	(11-(1-methylpiperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a]azepin-3-yl)methanol	NA	NA	C19H23N3O	309.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
98		Alcaftadine Metabolite-7 (R087010)	OCC1=CN=C(N1CCC2=C/3C=CC=C2)C3=C4CCNCC/4.O=CC(F)(F)F	Metabolite	DCTI-A-254	(11-(piperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a]azepin-3-yl)methanol TFA Salt	NA	NA	C20H21F3N3O2 (TFA Salt) C18H21N3O (Free base)	392.4 (TFA Salt) 295.39 (Free base)
99		Alcaftadine Nitroso Impurity (Mixture of Isomers)	O=CC1=CN=C2/C(C3=C(CCN12)C=CC=C3)=C(CC4)/CCN4N=O	NDSRI	DCTI-C-3764	11-(1-nitrosopiperidin-4-ylidene)-6,11-dihydro-5H-benzo[d]imidazo[1,2-a]azepine-3-carbaldehyde	NA	NA	C18H18N4O2	322.36
100	**Alverine**	4-Hydroxy Alverine	CCN(CCCC1=CC=CC=C1)CCCC2=CC=C(O)C=C2	Metabolite	DCTI-C-3089	4-(3-(ethyl(3-phenylpropyl)amino)propyl)phenol	142047-94-7	Phenol, 4-[3-[ethyl(3-phenylpropyl)amino]propyl]- (9CI, ACI)	C20H27NO	297.44
101		4-Hydroxy Alverine HCl	Cl.OC1=CC=C(C=C1)CCCN(CC)CCCC=2C=CC=CC2	Impurity	DCTI-C-3565	4-(3-(ethyl(3-phenylpropyl)amino)propyl)phenol hydrochloride	142047-93-6	na	C20H28ClNO	333.9
102		Alvimopan Metabolite Formic acid salt	O=C(O)[C@@H](CC1=CC=CC=C1)CN2C[C@H](C)[C@](C)(C3=CC=CC(O)=C3)CC2.O=CO	Metabolite	DCTI-A-253	(S)-2-benzyl-3-((3R,4R)-4-(3-hydroxyphenyl)-3,4-dimethylpiperidin-1-yl)propanoic acid formic acid (1/1)	NA	NA	$C_{24}H_{31}NO_5$ (Formate Salt) $C_{23}H_{29}NO_3$ (Free base)	413.51 (Formate Salt) 367.49 (Free base)
103		Alvimopan olefin impurity	C=C(C(NCC(O)=O)=O)CC1=CC=CC=C1	impurity	DCTI-C-1406	(2-benzylacryloyl)glycine	76932-18-8	NA	C12H13NO3	219.24
104		Alvimopan DMP ester Impurity	O=C(OCC)CNC([C@H](CN1C[C@H](C)[C@](C)(C2=CC=CC(O)=C2)CC1)CC3=CC=CC=C3)=O	IMPURITY	DCTI-C-3529	ethyl ((S)-2-benzyl-3-((3R,4R)-4-(3-hydroxyphenyl)-3,4-dimethylpiperidin-1-yl)propanoyl)glycinate	660848-91-9	N-Ethyl Acetate Alvimopan	C27H36N2O4	452.59

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
105	Alvimopan	Alvimopan Metabolite Impurity-(R,R,R-Isomer)	O=C([C@@H](CN1CC[C@](C)([C@H](C1)C)C2=CC=CC(O)=C2)CC3=CC=CC=C3)O	IMPURITY	DCTI-C-3528	1-Piperidinepropanoic acid, 4-(3-hydroxyphenyl)-3,4-dimethyl-α-(phenylmethyl)-, [3R-[1(R*),3α,4α]]- (9CI)	156130-37-9	1-Piperidinepropanoic acid, 4-(3-hydroxyphenyl)-3,4-dimethyl-α-(phenylmethyl)-, [3R-[1(R*),3α,4α]]- (9CI)	C23H29NO3	367.49
106		Alvimopan SSS Diastereomer	O=C(O)CNC([C@H](CN1C[C@@H](C)[C@@](C)(C2=CC=CC(O)=C2)CC1)CC3=CC=CC=C3)=O	IMPURITY	DCTI-C-3549	((S)-2-benzyl-3-((3S,4S)-4-(3-hydroxyphenyl)-3,4-dimethylpiperidin-1-yl)propanoyl)glycine	2280857-23-8	(2S, 3S, 4S)-Alvimopan	C25H32N2O4	424.54
107		Alvimopan Enantiomer impurity	O=C(O)CNC([C@@H](CN1C[C@@H](C)[C@@](C)(C2=CC=CC(O)=C2)CC1)CC3=CC=CC=C3)=O	IMPURITY	DCTI-C-3550	((R)-2-benzyl-3-((3S,4S)-4-(3-hydroxyphenyl)-3,4-dimethylpiperidin-1-yl)propanoyl)glycine	2280856-88-2	(2R,3S,4S)-Alvimopan; Alvimopan Impurity 25	C25H32N2O4	424.54
108		Alvimopan SSS Diastereomer	O=C(O)CNC([C@H](CN1C[C@@H](C)[C@@](C)(C2=CC=CC(O)=C2)CC1)CC3=CC=CC=C3)=O	Impurity	DCTI-C-3549	((S)-2-benzyl-3-((3S,4S)-4-(3-hydroxyphenyl)-3,4-dimethylpiperidin-1-yl)propanoyl)glycine	2280857-23-8	(2S, 3S, 4S)-Alvimopan	C25H32N2O4	424.54
109		Alvimopan Enantiomer impurity	O=C(O)CNC([C@@H](CN1C[C@@H](C)[C@@](C)(C2=CC=CC(O)=C2)CC1)CC3=CC=CC=C3)=O	Impurity	DCTI-C-3550	((R)-2-benzyl-3-((3S,4S)-4-(3-hydroxyphenyl)-3,4-dimethylpiperidin-1-yl)propanoyl)glycine	2280856-88-2	(2R,3S,4S)-Alvimopan; Alvimopan Impurity 25	C25H32N2O4	424.54
110		Alvimopan Desmethyl Impurity	O=C(O)CNC(C(CC1=CC=CC=C1)CN2CC(C)C(C3=CC=CC(O)=C3)CC2)=O	Metabolite	DCTI-C-3539	(2-benzyl-3-(4-(3-hydroxyphenyl)-3-methylpiperidin-1-yl)propanoyl)glycine	na	na	C24H30N2O4	410.51
111		Piperidine Phenol impurity / Alvimopan impurity	OC1=CC=CC([C@@]2(C)[C@@H](C)CNCC2)=C1	IMPURITY	DCTI-C-3377	3-((3R,4R)-3,4-dimethyl piperidin-4-yl)phenol	NA	NA	C13H19NO	205.3
112		Alvimopan RRR Diastereomer Impurity	O=C([O-])CNC([C@H](CC1=CC=CC=C1)CN2C[C@H](C)[C@](C)(C3=CC=CC(O)=C3)CC2)=O	IMPURITY	DCTI-C-3544	(2R,3R,4R)-Alvimopan; Alvimopan diastereomer 1	342639-35-4 (Free acid)	NA	C25H32N2O4 (Free acid) ; C29H43N3O4 (Salt)	424.54 (Free acid) ; 497.68 (Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
113	Ambrisentan	Ambrisentan Impurity A	O=C(O)[C@@H](O)C(C1=CC=CC=C1)(OC)C2=CC=CC=C2	Impurity	DCTI-C-856	(S)-2-hydroxy-3-methoxy-3,3-diphenylpropanoic acid	178306-52-0	NA	C16H16O4	272.3
114		Ambrisentan Impurity C	CC1=CC(C)=NC(S(=O)(C)=O)=N1	Impurity	DCTI-C-857	4,6-dimethyl-2-(methylsulfonyl)pyrimidine	35144-22-0	NA	C7H10N2O2S	186.23
115		Ambrisentan Impurity D	CC1=CC(C)=NC(O/C=C(C2=CC=CC=C2)\C3=CC=CC=C3)=N1	Metabolite	DCTI-C-858	2-((2,2-diphenylvinyl)oxy)-4,6-dimethylpyrimidine	1639429-81-4	Ambrisentan Vinyloxy Impurity	C20H18N2O	302.37
116		(R)-Ambrisentan	O=C(O)[C@@H](C(C1=CC=CC=C1)(OC)C2=CC=CC=C2)OC3=NC(C)=CC(C)=N3	Impurity	DCTI-C-859	(R)-2-((4,6-dimethylpyrimidin-2-yl)oxy)-3-methoxy-3,3-diphenylpropanoic acid	1007358-76-0	NA	C22H22N2O4	378.43
117		4-Hydroxymethyl ambrisentan glucuronide	O=C(C(C(C1=CC=CC=C1)(C2=CC=CC=C2)OC)OC3=NC(C)=CC(CO)=N3)O[C@@H]4O[C@H](C(O)=O)[C@@H](O)[C@H](O)[C@H]4O	Metabolite	DCTI-A-183	(2S,3S,4S,5R,6S)-3,4,5-trihydroxy-6-((2-((4-(hydroxymethyl)-6-methylpyrimidin-2-yl)oxy)-3-methoxy-3,3-diphenylpropanoyl)oxy)tetrahydro-2H-pyran-2-carboxylic acid	1106685-77-1	NA	C28H30N2O11	570.55
118	**Amprenevir**	Amprenevir Oxazolone	CC(C)CN(S(=O)(C1=CC=C(N)C=C1)=O)C[C@@H](OC2=O)[C@@H](N2)CC3=CC=CC=C3	Impurity	DCTI-C-2518	4-amino-N-(((4S,5R)-4-benzyl-2-oxooxazolidin-5-yl)methyl)-N-isobutylbenzenesulfonamide	1418639-27-6	Benzene sulfonamide, 4-amino-N-(2-methylpropyl)-N-[[(4S,5R)-2-oxo-4-(phenylmethyl)-5-oxazolidinyl]methyl- (ACI); Darunavir Impurity 15.	C21H27N3O4S	417.52

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
119	**Amsacrine**	Amsacrine 9,9'-oxydiacridine	C1(N=C2C=CC=CC2=C3OC4=C5C=CC=CC5=NC6=C4C=CC=C6)=C3C=CC=C1	Impurity	DCTI-C-2988	9,9'-oxydiacridine	95256-37-4	Amsacrine Impurity 6; 9,9'-oxybis-9,9'-oxydiacridine	C26H16N2O	372.43
120	**Amiodarone**	Amiodarone Impurity E	OC1=CC=C(C(C2=C(CCCC)OC3=C2C=CC=C3)=O)C=C1	Impurity	DCTI-C-897	(2-butylbenzofuran-3-yl)(4-hydroxyphenyl)methanone	52490-15-0	L 3372; NSC 85438	C19H18O3	294.35
121		Amiodarone EP Impurity F	OC1=C(I)C=C(C(C2=C(CCCC)OC3=C2C=CC=C3)=O)C=C1	impurity	DCTI-C-1422	(2-butylbenzofuran-3-yl)(4-hydroxy-3-iodophenyl)methanone	147030-50-0	L 6424	C19H17IO3	420.25
122		Amiodarone Impurity D	OC1=C(I)C=C(C(C2=C(CCCC)OC3=C2C=CC=C3)=O)C=C1I	Impurity	DCTI-C-898	(2-butylbenzofuran-3-yl)(4-hydroxy-3,5-diiodophenyl)methanone	1951-26-4	Amiodarone EP Impurity D	C19H16I2O3	546.14
123		Amisulpride EP Impurity H	O=C(C1=C(OC)C=C(N)C(S(=O)(CC)=O)=C1)N(C)CC2N(CCC2)CC	Impurity	DCTI-C-2657	4-amino-N-((1-ethylpyrrolidin-2-yl)methyl)-5-(ethylsulfonyl)-2-methoxy-N-methylbenzamide	1391054-22-0	N-Methyl Amisulpride	C18H29N3O4S	383.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
124	**Amisulpride**	Amisulpride EP Impurity G	O=C(C1=C(OC)C=C(N)C(S(=O)(CC)=O)=C1)NC2CN(CC)CCC2	Impurity	DCTI-C-2658	4-amino-N-(1-ethylpiperidin-3-yl)-5-(ethylsulfonyl)-2-methoxybenzamide	148516-68-1	Amisulpride Impurity G; N-Des[(1-ethyl-2-pyrrolidinyl)methyl]-N-(1-ethyl-3-piperidinyl) Amisulpride	C17H27N3O4S	369.48
125		Butanoic acid,2-[(2-chlorophenyl)methylene]-4-[2-(1,3-dihydro-1,3-dioxo-2h-isoindol-2-yl) ethoxy]-3-oxo-, ethyl ester	O=C(OCC)/C(C(COCCN(C(C1=C2C=CC=C1)=O)C2=O)=O)=C\C3=CC=CC=C3Cl	impurity	DCTI-C-1092	ethyl (E,Z)-2-(2-chlorobenzylidene)-4-(2-(1,3-dioxoisoindolin-2-yl)ethoxy)-3-oxobutanoate	400024-08-0	NA	C23H20ClNO6	441.86
126		Butanoic acid, 4-[2-(1,3-dihydro-1,3-dioxo-2h-isoindol-2-yl)ethoxy]-3-oxo-,ethyl ester	CCOC(CC(COCCN(C1=O)C(C2=C1C=CC=C2)=O)=O)=O	impurity	DCTI-C-1093	ethyl 4-(2-(1,3-dioxoisoindolin-2-yl)ethoxy)-3-oxobutanoate	88150-75-8	NA	C16H17NO6	319.31
127		Amlodipine related compound D	O=C(OCC)C1=C(NC(C)=C(C1C2=C(Cl)C=CC=C2)C(OC)=O)COCCN3C(C(C=CC=C4)=C4C3=O)=O	Impurity	DCTI-C-2947	3-ethyl 5-methyl 4-(2-chlorophenyl)-2-((2-(1,3-dioxoisoindolin-2-yl)ethoxy)methyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	88150-62-3	Phthaloyl Amlodipine; Amlodipine related compound D	C28H27ClN2O7	538.98
128		Amlodipine Ethyl Analog	ClC1=C(C2C(C(OCC)=O)=C(C)NC(COCCN)=C2C(OCC)=O)C=CC=C1	Impurity	DCTI-C-2953	diethyl 2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	140171-65-9	Amlodipine Diethyl Ester; Amlpdipine ep impurity E	C21H27ClN2O5	422.91
129		Amlodipine Related Compound F	O=C(C1=C(C)NC(COCCN)=C(C1C2=C(Cl)C=CC=C2)C(OC)=O)OC	Impurity	DCTI-C-2954	dimethyl 2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	140171-66-0	Amlodipine Dimethyl Ester;Amlodipine EP impurity F	C19H23ClN2O5	394.85

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
130	Amlodipine	Amlodipine EP Impurity H	OC(C1=CC=CC=C1C(NCCOCC(NC(C)=C(C2C3=C(Cl)C=CC=C3)C(OC)=O)=C2C(OCC)=O)=O)=O	Impurity	DCTI-C-3024	2-((2-((4-(2-chlorophenyl)-3-(ethoxycarbonyl)-5-(methoxycarbonyl)-6-methyl-1,4-dihydropyridin-2-yl)methoxy)ethyl)carbamoyl)benzoic acid	318465-73-5	2-Carboxybenzoyl Amlodipine	C28H29ClN2O8	557.OO
131		Amlodipine lactose adduct	ClC1=CC=CC=C1C2C(C(OC)=O)=C(C)NC(COCCNC3OC(CO)C(OC4OC(CO)C(O)C(O)C4O)C(O)C3O)=C2C(OCC)=O	metabolite	DCTI-C-3339	3-ethyl 5-methyl 4-(2-chlorophenyl)-2-((2-((3,4-dihydroxy-6-(hydroxymethyl)-5-((3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)amino)ethoxy)methyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C32H45ClN2O15	733.16
132		Amlodipine Glycolic Adduct	O=C(C1=C(COCCNC(CO)=O)NC(C)=C(C(OC)=O)C1C2=CC=CC=C2Cl)OCC	Impurity	DCTI-C-3358	3-ethyl 5-methyl 4-(2-chlorophenyl)-2-((2-(2-hydroxyacetamido)ethoxy)methyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C22H27ClN2O7	466.91
133		Amlodipine Impurity 26	ClC1=C(C2C(C(OC)=O)=C(C)NC(CO)=C2C(OCC)=O)C=CC=C1	Impurity	DCTI-C-3422	3-ethyl 5-methyl 4-(2-chlorophenyl)-2-(hydroxymethyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	79781-21-8	Amlodipine Impurity 28	C18H20ClNO5	365.81
134		R-Amlodipine	CC1=C(C(OC)=O)[C@@H](C2=CC=CC=C2Cl)C(C(OCC)=O)=C(COCCN)N1	Labelled Standard	DCTI-A-064	3-ethyl 5-methyl (R)-2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	103129-81-3	(+)-Amlodipine; (R)-(+)-Amlodipine; d-Amlodipine	C20H25ClN2O5	408.88
135		S-Amlodipine	CC1=C(C(OC)=O)[C@H](C2=CC=CC=C2Cl)C(C(OCC)=O)=C(COCCN)N1	Labelled Standard	DCTI-A-062	3-ethyl 5-methyl (S)-2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	103129-82-4	(-)-Amlodipine; (S)-(-)-Amlodipine; Levamlodipine; Lodien; l-Amlodipine;	C20H25ClN2O5	408.88
136		AMLODIPINE IMPURITY	O=C(OCC)C1=C(NC(C)=C(C1C2=C(Cl)C=CC=C2)C(OC)=O)COCCNCC(O)=O.Cl	Impurity	DCTI-C-3801	(2-((4-(2-chlorophenyl)-3-(ethoxycarbonyl)-5-(methoxycarbonyl)-6-methyl-1,4-dihydropyridin-2-yl)methoxy)ethyl)glycine hydrochloride	NA	AMLODIPINE IMPURITY RRT 1.1	C22H27ClN2O7(Free Base) C22H28Cl2N2O7 (HCl Salt)	466.91(Free Base) 503.37(HCl Salt)
137	**Amodiaquine**	N-Nitroso N- Desethyl Amodiaquine	OC1=CC=C(NC2=CC=NC3=CC(Cl)=CC=C23)C=C1CN(N=O)CC	NDSRI	DCTI-C-3750	N-(5-((7-chloroquinolin-4-yl)amino)-2-hydroxybenzyl)-N-ethylnitrous amide	NA	N-Nitroso N- Desethyl Amodiaquine(Mixture of E AND Z Nitroso isomers)	C18H17ClN4O2	356.81

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138	**Amoxicillin**	Amoxicillin EP impuritry -C	O=C([C@@H]1NC(C(C(NC2C3=CC=C(O)C=C3)=O)NC2=O)SC1(C)C)O	Impurity	DCTI-C-2629	((4S)-2-[5-(4-hydroxyphenyl)-3,6-dioxopiperazin-2-yl]-5,5-dimethylthiazolidine-4-carboxylic acid)	2088961-37-7	Amoxicillin USP related compound -C;Amoxicillin trihydrate-impurity c ;Amoxicillin Diketopiperazime	C16H19N3O5S	365.4
139	**Amphotericin**	Amphotericin B EP Impurity C	O=C([C@@H]1[C@H](C[C@]2(C[C@H](C[C@H]([C@@H](CC[C@H](C[C@H](CC(O[C@H]([C@@H]([C@@H]([C@H](/C=C/C=C/C=C/C=C/C=C/C=C/C=C/[C@@H](C[C@@H]1O2)O[C@@H]3O[C@@H]([C@H]([C@@H]([C@@H]3O)N)O)C)C)O)C)C)=O)O)O)O)O)OCC)O)O	impurity	DCTI-C-1819	(1R,3S,5R,6R,9R,11R,15S,16R,17R,18S,19E,21E,23E,25E,27E,29E,31E,33R,35S,36R,37S)-33-(((2R,3S,4S,5S,6R)-4-amino-3,5-dihydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-1-ethoxy-3,5,6,9,11,17,37-heptahydroxy-15,16,18-trimethyl-13-oxo-14,39-dioxabicyclo[33.3.1]nonatriaconta-19,21,23,25,27,29,31-heptaene-36-carboxylic acid	NA	13-O-Ethyl Amphotericin B, Amphotericin X2, Amphotericin EP Impurity C	C49H77NO17	952.14
140		Amphotericin B EP Impurity B	CO[C@]12O[C@@H](C[C@H](/C=C/C=C/C=C/C=C/C=C/C=C/C=C/[C@@H]([C@H]([C@H]([C@@H](OC(C[C@@H](C[C@@H](CC[C@H]([C@@H](C[C@@H](C2)O)O)O)O)O)=O)C)C)O)C)O[C@H]3[C@H]([C@H]([C@@H]([C@H](O3)C)O)N)O)[C@H](C(O)=O)[C@@H](O)C1	Impurity	DCTI-C-1764	1R,3S,5R,6R,9R,11R,15S,16R,17R,18S,19E,21E,23E,25E,27E,29E,31E,33R,35S,36R,37S)-33-(((2R,3S,4S,5S,6R)-4-amino-3,5-dihydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-3,5,6,9,11,17,37-heptahydroxy-1-methoxy-15,16,18-trimethyl-13-oxo-14,39-dioxabicyclo[33.3.1]nonatriaconta-19,21,23,25,27,29,31-heptaene-36-carboxylic acid	NA	13-O-Methyl Amphotericin B, Amphotericin X1	C48H75NO1	938.12
141	**Ampicillin**	Ampicillin Impurity B	O=C([C@@H](C(C)(C)S[C@]1([H])[C@@H]2NC([C@@H](N)C3=CC=CC=C3)=O)N1C2=O)O	impurity	DCTI-C-1962	(2S,5R,6R)-6-((S)-2-amino-2-phenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo [3.2.0] heptane-2-carboxylic acid.	NA	Ampicillin EP Impurity B, L-Ampicillin	C16H19N3O4S	349.11

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
142		Ampicillin hydantoin	O=C([C@@H](C(C)(C)S[C@]1([H])[C@@H]2N(C(NC3C4=CC=CC=C4)=O)C3=O)N1C2=O)O	Impurity	DCTI-C-3469	(2S,5R,6R)-6-(2,5-dioxo-4-phenylimidazolidin-1-yl)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid	NA	NA	C17H17N3O5S	375.4
143	Anastrozole	Anastrozole Dimer Impurity	CC(C1=CC(C(C)(C#N)CC2=CC(CN3N=CN=C3)=CC(C)(C)(C#N)C)=C2)=CC(CN4N=CN=C4)=C1)(C)C#N	Impurity	DCTI-C-1779	2,2'-((2-cyanopropane-1,2-diyl)bis(5-((1H-1,2,4-triazol-1-yl)methyl)-3,1-phenylene))bis(2-methylpropanenitrile)	NA	Anastrozole Dimer; Anastrozole EP impurity B	C30H31N9	517.63
144		Anastrozole Diacid	CC(C)(C1=CC(C(C)(C(O)=O)C)=CC(CN2C=NC=N2)=C1)C(O)=O	impurity	DCTI-C-1627	2,2'-(5-((1H-1,2,4-triazol-1-yl)methyl)-1,3-phenylene)bis(2-methylpropanoic acid)	NA	NA	C17H21N3O4	331.37
145		Alpha-Desmethyl Anastrozole	CC(C1=CC(C(C)C#N)=CC(CN2N=CN=C2)=C1)(C)C#N	Impurity	DCTI-C-1780	2-(3-((1H-1,2,4-triazol-1-yl)methyl)-5-(1-cyanoethyl)phenyl)-2-methylpropanenitrile	NA	α-Desmethyl Anastrozole; Anastrozole EP Impurity A; Anastrozole Impurity A	C16H17 N5	279.34
146		Anastrozole Monoacid Monoamide	CC(C(N)=O)(C)C1=CC(C(C)(C)C(O)=O)=CC(CN2C=NC=N2)=C1	IMPURITY	DCTI-C-3208	2-(3-((1H-1,2,4-triazol-1-yl)methyl)-5-(1-amino-2-methyl-1-oxopropan-2-yl)phenyl)-2-methylpropanoic acid	2469244-33-3	NA	C17H22N4O3	330.39
147		Anastrozole Monoamide	CC(C(N)=O)(C)C1=CC(C(C)(C)C#N)=CC(CN2C=NC=N2)=C1	Impurity	DCTI-C-3194	2-(3-((1H-1,2,4-triazol-1-yl)methyl)-5-(2-cyanopropan-2-yl)phenyl)-2-methylpropanamide	120512-03-0	Anastrozole Monoamide Mononitrile	C17H21N5O	311.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
148		Anastrozole Diamide	CC(C(N)=O)(C)C1=CC(C(C)(C)C(N)=O)=CC(CN2C=NC=N2)=C1	Impurity	DCTI-C-3193	2,2'-(5-((1H-1,2,4-triazol-1-yl)methyl)-1,3-phenylene)bis(2-methylpropanamide)	120512-04-1	NA	C17H23N5O2	329.4
149	Anlotinib	Anlotinib Impurity C	OC1=C(OC)C=C2C(N=CC=C2OC3=CC=C4C(C=C(C)N4)=C3F)=C1	Impurity	DCTI-C-3752	4-((4-fluoro-2-methyl-1H-indol-5-yl)oxy)-6-methoxyquinolin-7-ol	1210828-44-6	NA	C19H15FN2O3	338.34
150		Anlotinib Impurity D	COC1=C(OCC2(CC2)NC(OCC3=CC=CC=C3)=O)C=C(N=CC=C4OC5=CC=C6C(C=C(C)N6)=C5F)C4=C1	Impurity	DCTI-C-3778	benzyl (1-(((4-((4-fluoro-2-methyl-1H-indol-5-yl)oxy)-6-methoxyquinolin-7-yl)oxy)methyl)cyclopropyl)carbamate	1058156-88-9	NA	C31H28FN3O5	541.58
151		Anlotinib Impurity B	OC1=C(OCC2(CC2)N)C=C(N=CC=C3OC4=CC=C5C(C=C(C)N5)=C4F)C3=C1	Impurity	DCTI-C-3807	7-((1-aminocyclopropyl)methoxy)-4-((4-fluoro-2-methyl-1H-indol-5-yl)oxy)quinolin-6-ol	2205042-45-9	NA	C22H20FN3O3	393.42
152		Apalutamide APA-3 Acid	S=C1N(C2=CC(F)=C(C(O)=O)C=C2)C3(CCC3)C(N1C4=CN=C(C#N)C(C(F)(F)F)=C4)=O	Impurity	DCTI-C-1227	4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluorobenzoic acid	1332391-04-4	NA	C20H12F4N4O3S	464.39
153		Apalutamide Desmethyl Impurity	N#CC1=NC=C(N2C(C3(CCC3)N(C2=S)C4=CC=C(C(F)=C4)C(N)=O)=O)C=C1C(F)(F)F	impurity	DCTI-C-1963	4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluorobenzamide	1332391-11-3	N-Desmethyl Apalutamide.	C20H13F4N5O2S	463.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
154	Apalutamide	Apalutamide Des-fluoro Impurity	N#CC1=NC=C(N2C(C3(CCC3)N(C2=S)C4=CC=C(C(NC)=O)C=C4)=O)C=C1C(F)(F)F	impurity	DCTI-C-1964	4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-N-methylbenzamide	1332389-57-7	NA	C21H16F3N5O2S	459.45
155		Apalutamide APA-3 Amide	S=C1N(C2=CC(F)=C(C(NC)=O)C=C2)C3(CCC3)C(N1C4=CN=C(C(N)=O)C(C(F)(F)F)=C4)=O	impurity	DCTI-C-1228	5-(5-(3-fluoro-4-(methylcarbamoyl)phenyl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-7-yl)-3-(trifluoromethyl)picolinamide	NA	NA	C21H17F4N5O3S	495.45
156		Apalutamide Dioxo Impurity	O=C1N(C2=CC(F)=C(C(NC)=O)C=C2)C3(CCC3)C(N1C4=CN=C(C#N)C(C(F)(F)F)=C4)=O	impurity	DCTI-C-1229	4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-6,8-dioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluoro-N-methylbenzamide	1332391-92-0	NA	C21H15F4N5O3	461.38
157		APA-3-Methoxy Impurity	S=C(OC)NC1=CC(C(F)(F)F)=C(C#N)N=C1	Impurity	DCTI-C-2875	O-methyl (6-cyano-5-(trifluoromethyl)pyridin-3-yl)carbamothioate	NA	Apalutamide 3-methoxy impurity	C9H6F3N3OS	261.22
158		Apalutamide Impurity F	O=C(OC)C1=CC=C(N(C(N(C2=CC(C(F)(F)F)=C(C#N)N=C2)C3=O)=S)C43CCC4)C=C1F	IMPURITY	DCTI-C-2816	methyl4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluorobenzoate	1950587-19-5	Apalutamide methyl ester impurity	C21H14F4N4O3S	478.42
159		Apalutamide Impurity J	O=C(OCC)C1=CC=C(N(C(N(C2=CC(C(F)(F)F)=C(C#N)N=C2)C3=O)=S)C43CCC4)C=C1F	IMPURITY	DCTI-C-2817	Ethyl 4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluorobenzoate	1332388-83-6	Apalutamide ethyl ester impurity	C22H16F4N4O3S	492.45

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
160		Apixaban Ester Impurity	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N5C(CCCC5)=O)C=C4)C3=O)OCC	impurity	DCTI-C-1965	ethyl 1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylate.	503614-91-3	Apixaban V: Ethyl 1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylate;Apixaban ethyl ester.	C27H28N4O5	488.21
161		Apixaban methyl ester Impurity	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N5C(CCCC5)=O)C=C4)C3=O)OC	impurity	DCTI-C-1966	methyl 1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylate	1074365-84-6	Apixaban Methyl Impurity; Apixaban Acid Methyl Ester.	C26H26N4O5	474.52
162		Apixaban Acid Impurity	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N5C(CCCC5)=O)C=C4)C3=O)O	impurity	DCTI-C-1967	1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid.	503614-92-4	Apixaban carboxylic acid:Apixaban Impurity 41.	C25H24N4O5	460.49
163		ethyl 1-(4-methoxyphenyl)-7a-morpholino-6-(4-nitrophenyl)-7-oxo3a,4,5,6,7,7a-hexahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	O=C(C1=NN(C2=CC=C(OC)C=C2)C(C1CCN3C4=CC=C([N+]([O-])=O)C=C4)(N5CCOCC5)C3=O)OCC	Impurity	DCTI-C-2300	ethyl 1-(4-methoxyphenyl)-7a-morpholino-6-(4-nitrophenyl)-7-oxo3a,4,5,6,7,7a-hexahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	1620386-62-0	Apixaban Impurity 30;1H-pyrazolo(3,4-c)pyridine-3-carboxylic acid,3a,4,5,6,7,7a-hexahydro-1-(4-methoxyphenyl)-7a-(4-morphophenyl)-6-94-nitrophenyl)-7-oxo-,ethylester(ACI);ethyl3a,4,5,6,7,7a-hexahydro-1-(4-methoxyphenyl)-7a(4-morpholinyl)-6-(4-nitrophenyl)-7-oxo-1H-pyrazolo(3,4-c)pyridine-3	C58H71Cl2N8O15-	1191.15
164		N-Formyl-1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxamide	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N5C(CCCC5)=O)C=C4)C3=O)NC=O	Impurity	DCTI-C-2301	N-Formyl-1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxamide	1351611-14-7	Apixaban Imp 10;1H-Pyrazolo(3,4-c)pyridine-3-carboxamide,N-formyl-4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-2-oxo-6-(4-(2-oxo-1-piperidinyl)phenyl)-(ACL);N-formyl-4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxo-1-piperidinyl)phenyl)-1H-pyrazolo(3,4-c)pyridine-3-carboxamide(ACL);N-formyl-Apixaban	C26H25N5O5	487.52

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
165		Ethyl 6-(4-(5-bromopentanamido)phenyl)-1-(4-methoxyphenyl)-7-oxo-4, 5, 6, 7-tetrahydro-1H-pyrazolo[3, 4-c]pyridine-3-carboxylate	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(NC(CCCCBr)=O)C=C4)C3=O)OCC	Impurity	DCTI-C-2297	Ethyl 6-(4-(5-bromopentanamido)phenyl)-1-(4-methoxyphenyl)-7-oxo-4, 5, 6, 7-tetrahydro-1H-pyrazolo[3, 4-c]pyridine-3-carboxylate	881386-12-5	Apixaban impurity 77;1H-pyrazolo(3,4-c)pyridine-3-carboxylic acid,6-(4((5-bromo-1-oxopentyl)-4,5,6,7-tetrahydro-1-(4-methoxy phenyl-2-oxo-,ethyl ester(9cl,ACI);ethyl 6-(4-((5-bromo-1-oxo pentyl)-4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-7-oxo-1H-pyrazolo(3,4-c)pyridine-3-carboxylate (ACI)	C27H29BrN4O5	569.46
166		ethyl 6-(4-(5-chloropentanamido)phenyl-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(NC(CCCCCl)=O)C=C4)C3=O)OCC	Impurity	DCTI-C-2298	ethyl 6-(4-(5-chloropentanamido)phenyl-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	1421823-20-2	Apixaban impurity 20;1H-pyrazolo(34-c) pyridine-3-carboxylic acid,6-(4-((5-chloro-1-oxophrntyl)amino)phenyl)-7-oxo;ethyl ester(ACI);ethyl6-(4-((5-chloro-1-oxopentyl)amino)phenyl)-4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-7-oxo-1H-pyrazolo(3,4-c)pyridine-3-carboxylate (ACI)	C27H29ClN4O5	525
167		ethyl 1-(4-methoxyphenyl)-6-(4-nitrophenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C([N+]([O-])=O)C=C4)C3=O)OCC	Impurity	DCTI-C-2295	ethyl 1-(4-methoxyphenyl)-6-(4-nitrophenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	536759-91-8	Apixaban impurity 47;1H-pyrazolo(3,4-c)pyridine-3-carboxylic acid,4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-6-(4-nitrosophenyl)-7-oxo-,ethyl ester(9cl,ACI);ethyl4,5,6,7-tetrahydro-1-(4-methoxy phenyl)-6-4-nitro phenyl)-7-oxo-1H-pyrazolo(3,4-c)pyridine-3-carboxylate(ACI)	C22H20N4O6	436.42
168		ethyl 6-(4-aminophenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N)C=C4)C3=O)OCC	Impurity	DCTI-C-2299	ethyl 6-(4-aminophenyl)-1-(4-methoxyphenyl)-7-oxo- 4,5,6,7-tetrahydro-1H-pyrazolo(3,4-c)pyridine-3-carboxylate	503615-07-4	Apixaban imp-19,1H-pyrazolo(3,4-c)pyridine-3-carboxylic acid,6-(4-amino phenyl)-4,5,6,7-tetrahydrto-1-*(4-methoxy phenyl)-7-oxo-ethyl)ester(9cl,aci);Ethyl6-(4-aminophenyl)-4,5,6+,7-tetrahydro-1-(4-methoxy phenyl)-7-oxo-1H-pyrazolo(3,4-c)pyridine-3-carboxylate(ACI);6-(4-Aminopgenyl)-1-(4-methoxyphenyl)-7-oxo	C22H22N4O4	406.44

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169	Apixaban	ethyl 2-chloro-2-(2-(4-hydroxyphenyl)hydrazineylidene)acetate	O=C(OCC)/C(Cl)=N/NC1=CC=C(O)C=C1	Impurity	DCTI-C-2296	ethyl 2-chloro-2-(2-(4-hydroxyphenyl)hydrazineylidene)acetate	NA	Apixaban impurity	C10H11ClN2O3	242.66
170		APX-Methoxy chlorohydrazone	COC1=CC=C(N/N=C(OC)/C(OCC)=O)C=C1	Impurity	DCTI-C-2903	ethyl (Z)-2-methoxy-2-(2-(4-methoxyphenyl)hydrazineylidene)acetate	NA	NA	C12H16N2O4	252.27
171		3,3-dimorpholino-1-(4-nitrophenyl)piperidin-2-one	O=C1C(N2CCOCC2)(N3CCOCC3)CCCN1C4=CC=C([N+]([O-])=O)C=C4	Impurity	DCTI-C-2917	3,3-dimorpholino-1-(4-nitrophenyl)piperidin-2-one	NA	NA	C19H26N4O5	390.44
172		Apixaban Metabolite 5 Isopropyl Ester	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(NCCCCC(OC(C)C)=O)C=C4)C3=O)N	Impurity	DCTI-C-2919	isopropyl 5-((4-(3-carbamoyl-1-(4-methoxyphenyl)-7-oxo-1,4,5,7-tetrahydro-6H-pyrazolo[3,4-c]pyridin-6-yl)phenyl)amino)pentanoate	NA	NA	C28H33N5O5	519.6
173		Apixaban Open ring Acid	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(NCCCCC(O)=O)C=C4)C3=O)N	Metabolite	DCTI-C-2920	5-((4-(3-carbamoyl-1-(4-methoxyphenyl)-7-oxo-1,4,5,7-tetrahydro-6H-pyrazolo[3,4-c]pyridin-6-yl)phenyl)amino)pentanoic acid	2206825-87-6	Apixaban Open Chain Acid	C25H27N5O5	477.52
174		Apixaban impurity 3	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N)C=C4)C3=O)O	Impurity	DCTI-C-3007	6-(4-aminophenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid	1704504-93-7	1.Apixaban Impurity 14 2.1H-Pyrazolo[3,4-c]pyridine-3-carboxylic acid, 6-(4-aminophenyl)-4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-7-oxo-(ACI)	C20H18N4O4	378.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
175		Hydroxy Apixaban	OC1=CC=C(N2N=C(C3=C2C(N(C4=CC=C(N5CCCCC5=O)C=C4)CC3)=O)C(N)=O)C=C1	metabolite	DCTI-C-3008	1-(4-hydroxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	503612-76-8	1.4-Demethoxy-4-hydroxy Apixaban 2.O-Desmethyl Apixaban 3.1-(4-Hydroxyphenyl)-7-oxo-6-[4-(2-oxopiperidin-1-yl)phenyl]-4,5-dihydropyrazolo[3,4-c]pyridine-3-carboxamide	C24H23N5O4	445.48
176		Apixaban meta methoxy impurity	O=C1N(C2=CC=C(N3C(C(N(C4=CC=CC(OC)=C4)N=C5C(N)=O)=C5CC3)=O)C=C2)CCCC1	Impurity	DCTI-C-3093	1-(3-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	1801881-18-4	NA	C25H25N5O4	459.51
177		Apixaban p-chloro impurity	O=C1N(C2=CC=C(N3C(C(N(C4=CC=C(Cl)C=C4)N=C5C(N)=O)=C5CC3)=O)C=C2)CCCC1	Impurity	DCTI-C-3091	1-(4-chlorophenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	2029205-64-7	Apixaban Impurity 5; Apixaban Chloro Impurity; Apixaban Impurity E; p-Chloro Apixaban impurity.	C24H22ClN5O3	463.92
178		Apixaban ortho methoxy impurity	O=C1N(C2=CC=C(N3C(C(N(C4=CC=CC=C4OC)N=C5C(N)=O)=C5CC3)=O)C=C2)CCCC1	Impurity	DCTI-C-3094	1-(2-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	1801881-16-2	Apixaban Impurity B	C25H25N5O4	459.51
179		Des methoxy Apixaban	NC(C(C1=C2C(N(C3=CC=C(N4CCCCC4=O)C=C3)CC1)=O)=NN2C5=CC=CC=C5)=O	Impurity	DCTI-C-3101	7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-1-phenyl-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	1801881-17-3	NA	C24H23N5O3	429.48
180		Apixaban p-Ethoxy impurity	O=C1N(C2=CC=C(N3C(C(N(C4=CC=C(OCC)C=C4)N=C5C(N)=O)=C5CC3)=O)C=C2)CCCC1	Impurity	DCTI-C-3108	1-(4-ethoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	1928718-22-2	Apixaban Impurity 24	C26H27N5O4	473.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
181		1-(4-hydroxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid(APIXABAN)	OC1=CC=C(N2N=C(C3=C2C(N(C4=CC=C(N5CCCCC5=O)C=C4)CC3)=O)C(O)=O)C=C1	Impurity	DCTI-C-3026	1-(4-hydroxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid	2459302-74-8	4,5,6,7-Tetrahydro-1-(4-hydroxyphenyl)-7-oxo-6-[4-(2-oxo-1-piperidinyl)phenyl]-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid (ACI); Apixaban Hydroxy acid Impurity	C24H22N4O5	446.16
182		3-acetyl-6-(4-aminophenyl)-1-(4-methoxyphenyl)-1,4,5,6-tetrahydro-7H-pyrazolo[3,4-c]pyridin-7-one	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(N)C=C4)C3=O)C	Impurity	DCTI-C-3106	3-acetyl-6-(4-aminophenyl)-1-(4-methoxyphenyl)-1,4,5,6-tetrahydro-7H-pyrazolo[3,4-c]pyridin-7-one	NA	Apixaban Acetyl Impurity	C21H20N4O3	376.42
183		Apixaban Impurity 33	COC1=CC=C(N2N=C(C3=C2C(N(C4=CC=C(N5C(C)CCCC5=O)C=C4)CC3)=O)C(N)=O)C=C1	Impurity	DCTI-C-3131	1-(4-methoxyphenyl)-6-(4-(2-methyl-6-oxopiperidin-1-yl)phenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	2098457-92-0	Apixaban Impurity 3 BMS-778960, Apixaban Impurity 33	C26H27N5O4	473.53
184		Apixaban Open Ring Amide Impurity	COC1=CC=C(N2N=C(C3=C2C(N(C4=CC=C(NCCCCC(N)=O)C=C4)CC3)=O)C(N)=O)C=C1	IMPURITY	DCTI-C-3269	6-(4-((5-amino-5-oxopentyl)amino)phenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	2187409-01-2	Apixaban impurity D, Apixaban Impurity 2, Apixaban Impurity 2 BMS-724914	C25H28N6O4	476.54
185		N-Nitroso Apixaban Open Ring Amide	COC1=CC=C(N2N=C(C3=C2C(N(C4=CC=C(N(N=O)CCCCC(N)=O)C=C4)CC3)=O)C(N)=O)C=C1	Impurity	DCTI-C-3441	6-(4-((5-amino-5-oxopentyl)(nitroso)amino)phenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	NA	NA	C25H27N7O5	505.53
186		Apixaban Impurity 50	O=C1C(N2CCOCC2)=CCCN1C3=CC=C(N4C(CCCC4)=O)C=C3	Impurity	DCTI-C-3543	3-morpholino-1-(4-(2-oxopiperidin-1-yl)phenyl)-5,6-dihydropyridin-2(1H)-one	545445-44-1	3-Morpholin-4-yl-1-[4-(2-oxopiperidin-1-yl)phenyl]-5,6-dihydro-1H-pyridin-2-one	C20H25N3O3	355.44
187		N-Nitroso Apixaban Amino Acid Impurity	COC1=CC=C(N2N=C(C3=C2C(N(C4=CC=C(N(N=O)CCCCC(O)=O)C=C4)CC3)=O)C(N)=O)C=C1	NDSRI	DCTI-C-3521	5-((4-(3-carbamoyl-1-(4-methoxyphenyl)-7-oxo-1,4,5,7-tetrahydro-6H-pyrazolo[3,4-c]pyridin-6-yl)phenyl)(nitroso)amino)pentanoic acid	NA	N-Nitroso Apixaban Open Ring acid	C25H26N6O6	506.52
188		lithium 5-((4-(5-morpholino-6-oxo-3,6-dihydropyridin-1(2H)-yl)phenyl)amino)pentanoate	O=C1C(N2CCOCC2)=CCCN1C3=CC=C(NCCCCC(O[Li])=O)C=C3	Impurity	DCTI-C-3702	lithium 5-((4-(5-morpholino-6-oxo-3,6-dihydropyridin-1(2H)-yl)phenyl)amino)pentanoate	NA	1.Apixaban Impurity 132 2.5-((4-(5-morpholino-6-oxo-3,6-dihydropyridin-1(2H)-yl)phenyl)amino)pentanoic acid	Free Base: C20H27N3O4 Lithium Salt: C20H26LiN3O4	Free Base:373.45 Lithium Salt:379.38

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
189		6-(4-(5-chloropentanamido)phenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	O=C(C1=NN(C2=CC=C(OC)C=C2)C3=C1CCN(C4=CC=C(NC(CCCCCl)=O)C=C4)C3=O)N	Impurity	DCTI-C-3770	6-(4-(5-chloropentanamido)phenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide	1449510-64-8	Apixaban Impurity 26	C25H26ClN5O4	495.96
190		ethyl 1-(4-chlorophenyl)-7a-morpholino-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-3a,4,5,6,7,7a-hexahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylate	O=C1N(C2=CC=C(N3C(C(N(C4=CC=C(Cl)C=C4)N=C5C(OCC)=O)(N6CCOCC6)C5CC3)=O)C=C2)CCCC1	Impurity	DCTI-C-3902	ethyl 1-(4-chlorophenyl)-7a-morpholino-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-3a,4,5,6,7,7a-hexahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylate	NA	Apixaban Related Impurity	C30H34ClN5O5	580.08
191		5-((4-(5-morpholino-6-oxo-3,6-dihydropyridin-1(2H)-yl)phenyl)(nitroso)amino)pentanoic acid	O=C1C(N2CCOCC2)=CCCN1C3=CC=C(N(N=O)CCCCC(O)=O)C=C3	NDSRI	DCTI-C-3808	5-((4-(5-morpholino-6-oxo-3,6-dihydropyridin-1(2H)-yl)phenyl)(nitroso)amino)pentanoic acid	NA	Apixaban Nitroso Impurity 8(Mixture of isomers)	C20H26N4O5	402.45
192		3-acetyl-1-(4-methoxyphenyl)-6-(4-nitrophenyl)-1,4,5,6-tetrahydro-7H-pyrazolo[3,4-c]pyridin-7-one	O=C1C(N(C2=CC=C(OC)C=C2)N=C3C(C)=O)=C3CCN1C4=CC=C(N)C=C4	IMPURITY	DCTI-C-3107	3-acetyl-6-(4-aminophenyl)-1-(4-methoxyphenyl)-1,4,5,6-tetrahydro-7H-pyrazolo[3,4-c]pyridin-7-one	NA	Apixaban Nitro Acetyl Impurity	C21H18N4O5	406.4
193		3-morpholino-1-(4-nitrophenyl)pyridin-2(1H)-one	O=C1C(=CC=CN1C2=CC=C(C=C2)N(=O)=O)N3CCOCC3	IMPURITY	DCTI-C-2918	3-morpholino-1-(4-nitrophenyl)pyridin-2(1H)-one	2818923-97-4	3-morpholino-1-(4-nitrophenyl)pyridin-2(1H)-Pyridinone	C15H15N3O4	301.3
194		Apremilast 3-Acetamido Benzoic Acid Impurity	O=C(N[C@H](CS(C)(=O)=O)C1=CC=C(OC)C(OCC)=C1)C2=C(NC(C)=O)C=CC=C2C(O)=O	Impurity	DCTI-C-075	(S)-3-acetamido-2-((1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)carbamoyl)benzoic acid	2096492-41-8	NA	C22H26N2O8S	478.52
195		Apremilast Amino Sulfone Impurity	NC(CS(=O)(C)=O)C1=CC(OCC)=C(OC)C=C1	impurity	DCTI-C-2210	1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethan-1-amine.	NA	3-Ethoxy-4-methoxy-α-[(methylsulfonyl)methyl]benzenemethanamine (ACI); 1-(3-Ethoxy-4-methoxyphenyl)-2-methylsulfonylethanamine; 2-(3-Ethoxy-4-methoxyphenyl)-1-(methanesulfonyl)eth-2-ylamine.	C12H19NO4S	273.35

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
196	Apremilast	Apremi+C39:C41last Impurity RS-9	OC1=C2C(C(N([C@@H](C3=CC=C(OC)C(OCC)=C3)CS(=O)(C)=O)C2=O)=O)=C(NC(C)=O)C=C1	Impurity	DCTI-C-164	(S)-N-(2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-7-hydroxy-1,3-dioxoisoindolin-4-yl)acetamide	2096492-44-1	NA	C22H24N2O8S	476.5
197		Apremilast 2-Acetamido Benzoic Acid Impurity	O=C(N[C@H](CS(C)(=O)=O)C1=CC=C(OC)C(OCC)=C1)C2=C(C(O)=O)C(NC(C)=O)=CC=C2	metabolite	DCTI-C-076	(S)-2-acetamido-6-((1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)carbamoyl)benzoic acid	1809170-71-5	NA	C22H26N2O8S	478.52
198		O-Desmethyl Apremilast	CCOC1=CC(C(CS(C)(=O)=O)N2C(C(C=CC=C3NC(C)=O)=C3C2=O)=O)=CC=C1O	metabolite	DCTI-C-282	N-(2-(1-(3-ethoxy-4-hydroxyphenyl)-2-(methylsulfonyl)ethyl)-1,3-dioxoisoindolin-4-yl)acetamide	1384441-38-6	NA	C21H22N2O7S	446.47
199		Apremilast Impurity RS-7	CCOC1=CC([C@@H](CS(C)(=O)=O)N2C(C(C=CC(O)=C3NC(C)=O)=C3C2=O)=O)=CC=C1OC	Impurity	DCTI-C-160	(S)-N-(2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-5-hydroxy-1,3-dioxoisoindolin-4-yl)acetamide	2096492-43-0	Apremilast Impurity 13; 5-Hydroxy Apremilast	C22H24N2O8S	476.5
200		Apremilast Des Acetyl 4-Desmethyl Impurity	NC1=CC=CC(C(N2[C@H](CS(=O)(C)=O)C3=CC=C(C(OCC)=C3)O)=O)=C1C2=O	Metabolite	DCTI-C-2774	(S)-4-amino-2-(1-(3-ethoxy-4-hydroxyphenyl)-2-(methylsulfonyl)ethyl)isoindoline-1,3-dione	1384440-16-7	1.Apremilast Impurity 12; 2.N-Desacetyl O4-Desmethyl Apremilast; 3.O-Demethyl-N-deacetyl apremilast	C19H20N2O6S	404.44
201		1-(3,4-Diethoxyphenyl)-2-(methyl sulfonyl)ethanamine	O=S(CC(N)C1=CC=C(OCC)C(OCC)=C1)(C)=O	Impurity	DCTI-C-3013	1-(3,4-diethoxyphenyl)-2-(methylsulfonyl)ethan-1-amine	1284768-38-2	NA	C13H21NO4S	287.37

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
202		Desacetyl Apremilast Impurity **(Metabolite M7)**	NC1=CC=CC(C(N2[C@H](CS(C)(=O)=O)C3=CC=C(C(OCC)=C3)OC)=O)=C1C2=O	Metabolites	DCTI-C-3661	(S)-4-amino-2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)isoindoline-1,3-dione	635705-72-5	Apremilast Impurity 11	C20H22N2O6S	418.46
203		4-Nitro-Apremilast Impurity	COC(C(OCC)=C1)=CC=C1C(CS(C)(=O)=O)N2C(C3=C(C2=O)C([N+]([O-])=O)=CC=C3)=O	Impurity	DCTI-C-3660	2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-4-nitroisoindoline-1,3-dione	253168-82-0	rac-Apremilast Impurity 19	C20H20N2O8S	448.45
204		Apremilast 3-Hydroxy Impurity **(Metabolite M5)**	OC1=CC([C@H](N2C(C(C(NC(C)=O)=CC=C3)=C3C2=O)=O)CS(C)(=O)=O)=CC=C1OC	Metabolites	DCTI-C-3663	(S)-N-(2-(1-(3-hydroxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-1,3-dioxoisoindolin-4-yl)acetamide	1384967-20-7	Apremilast Impurity 7	C20H20N2O7S	432.45
205		2-Ethoxy-1-methoxy-4-Imp.of Apremilast	O=S(/C=C/C1=CC=C(OC)C(OCC)=C1)(C)=O	Impurity	DCTI-C-3676	(E)-2-ethoxy-1-methoxy-4-(2-(methylsulfonyl)vinyl)benzene	1831833-38-5	Apremilast Impurity 12	C12H16O4S	256.32
206		(S)-N-(2'-(1-(3-Ethoxy Imp.of Apremilast	O=C(C)NC1=CC=CC(C(N2C3=CC=CC(C(N4[C@@H](C5=CC(OCC)=C(OC)C=C5)CS(C)(=O)=O)=O)=O)=C3C4=O)=O)=C1C2=O	Impurity	DCTI-C-3681	(S)-N-(2'-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-1,1',3,3'-tetraoxo-[2,4'-biisoindolin]-4-yl)acetamide	1802246-60-1	1.Apremilast Dimer 2.Apremilast Impurity 28	C30H27N3O9S	605.62
207		Apremilast Phthalic Acid Impurity **(Metabolite M18)**	O=C(C1=CC=CC(NC(C)=O)=C1C(O)=O)O	Metabolites	DCTI-C-3691	3-acetamidophthalic acid	15371-06-9	1.3-Acetylamino-phthalic acid 2.Apremilast Impurity 27	C10H9NO5	223.18
208		(R)-1-(3-amino-4-hydroxyphenyl)ethane-1,2-diol	O[C@H](C1=CC(N)=C(O)C=C1)CO	Impurity	DCTI-C-520	(R)-1-(3-amino-4-hydroxyphenyl)ethane-1,2-diol	NA	NA	C8H11NO3	169.18
209		(R)-4-(2-aminopropyl)phenol	OC1=CC=C(C[C@H](N)C)C=C1	Impurity	DCTI-C-521	(R)-4-(2-aminopropyl)phenol	1518-89-4	NA	C9H13NO	151.21
210		5-formyl-2-hydroxybenzamide	OC1=C(C(N)=O)C=C(C=O)C=C1	Impurity	DCTI-C-1579	5-formyl-2-hydroxybenzamide	NA	benzamide, 5-formyl-2-hydroxy-; Formoterol impurity	C8H7NO3	165.15

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
211	Arformoterol	N-(5-formyl-2-hydroxyphenyl)formamide	OC1=C(NC=O)C=C(C=O)C=C1	Impurity	DCTI-C-1608	N-(5-formyl-2-hydroxyphenyl)formamide	NA	NA	C8H7NO3	165.15
212		A-Amino dimer impurity	CC(NC(CC1=CC=C(OC)C=C1)C)CC2=CC=C(OC)C=C2	impurity	DCTI-C-1052	bis(1-(4-methoxyphenyl)propan-2-yl)amine	112376-21-3	Arformoterol impurity; Formoterol impurity	C20H27NO2	313.43
213		A-Hydroxy diol impurity	OCC(O)C1=CC=C(OCC2=CC=CC=C2)C([N+]([O-])=O)=C1	impurity	DCTI-C-1053	1-(4-(benzyloxy)-3-nitrophenyl)ethane-1,2-diol	876753-51-4	Arformoterol impurity; Formoterol impurity	C15H15NO5	289.29
214		O-Formyl N-Acetyl AC-Amino	C[C@H](CC1=CC=C(OC)C=C1)N(C(C2=CC=CC=C2)C)C[C@H](OC([H])=O)C3=CC=C(OCC4=CC=CC=C4)C(NC(C)=O)=C3	impurity	DCTI-C-1101	(1R)-1-(3-acetamido-4-(benzyloxy)phenyl)-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)(1-phenylethyl)amino)ethyl formate	Na	NA	C36H40N2O5	580.73
215		Di formylated AC-Amino	C[C@H](CC1=CC=C(OC)C=C1)N(C(C2=CC=CC=C2)C)C[C@H](OC([H])=O)C3=CC=C(OCC4=CC=CC=C4)C(NC([H])=O)=C3	impurity	DCTI-C-1102	(1R)-1-(4-(benzyloxy)-3-formamidophenyl)-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)(1-phenylethyl)amino)ethyl formate	Na	NA	C35H38N2O5	566.7
216		O-DE BENZYL AC-FORMYL COMPOUND	O[C@@H](CN(C(C1=CC=CC=C1)C)[C@H](C)CC2=CC=C(OC)C=C2)C3=CC=C(O)C(NC([H])=O)=C3	impurity	DCTI-C-1103	N-(2-hydroxy-5-((1R)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)(1-phenylethyl)amino)ethyl)phenyl)formamide	NA	NA	C27H32N2O4	448.56
217	**Arformoterol**	Arformoterol Nitroso Impurity	O=CNC1=CC([C@@H](O)CN([C@H](C)CC2=CC=C(OC)C=C2)N=O)=CC=C1O	NDSRI	DCTI-C-3652	N-(2-hydroxy-5-((R)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)(nitroso)amino)ethyl)phenyl)formamide	NA	Nitroso Arformoterol (Mixture of isomers)	C19H23N3O5	373.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
218		Aripiprazole Hydroxyquinolinone Analog	O=C1NC2=C(C=CC(O)=C2)C=C1	Impurity	DCTI-C-2795	7-hydroxyquinolin-2(1H)-one	70500-72-0	NA	C9H7NO2	161.16
219		Aripiprazole Hydroxydihydroquinolinone Analog	O=C1NC2=C(C=CC(O)=C2)CC1	Impurity	DCTI-C-2794	7-hydroxy-3,4-dihydroquinolin-2(1H)-one	22246-18-0	NA	C9H9NO2	163.18
220		Aripiprazole Acid Analog	O=C(CC1)NC2=C1C=CC(OCCCC(O)=O)=C2	Metabolite	DCTI-C-2796	4-((2-oxo-1,2,3,4-tetrahydroquinolin-7-yl)oxy)butanoic acid	58899-27-7	Aripiprazole butanoic acid impurity	C13H15NO4	249.27
221		Aripiprazole Bromobutoxyquinolinone Analog	BrCCCCOC1=CC(N2)=C(C=CC2=O)C=C1	Impurity	DCTI-C-2809	7-(4-bromobutoxy)quinolin-2(1H)-one	203395-59-9	NA	C13H14BrNO2	296.16
222		2-Dechloro Aripiprazole	O=C1NC2=CC(OCCCCN(CC3)CCN3C4=CC(Cl)=CC=C4)=CC=C2CC1	Impurity	DCTI-C-2811	7-(4-(4-(3-chlorophenyl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one	203395-82-8	2-Deschloro Aripiprazole	C23H28ClN3O2	413.95
223		3-Dechloro Aripiprazole	O=C1NC2=CC(OCCCCN(CC3)CCN3C4=C(Cl)C=CC=C4)=CC=C2CC1	Impurity	DCTI-C-2812	7-(4-(4-(2-chlorophenyl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one	203395-81-7	Aripiprazole 3-deschloro impurity	C23H28ClN3O2	413.95
224		Aripiprazole Related Compound G	ClC1=CC=CC(N2CCN(CC2)CCCCOC3=CC=C4C(NC(C=C4)=O)=C3)=C1Cl	metabolite	DCTI-C-2813	7-(4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butoxy)quinolin-2(1H)-one	129722-25-4	Dehydroaripiprazole	C23H25Cl2N3O2	446.37
225		Aripiprazole Spiro Analog	ClC1=C(Cl)C(N(CC2)CC[N+]32CCCC3)=CC=C1.[Br-]	Impurity	DCTI-C-2814	8-(2,3-Dichlorophenyl)-8-aza-5-azoniaspiro[4.5]decane Bromide	795313-24-5	NA	C14H19Cl2N2(Free Base)C14H19BrCl2N2(Bromide salt)	286.22(Free Base)366.12(Bromide salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
226	Aripiprazole	Aripiprazole Diquinolinone Butanediol	O=C1NC2=C(C=CC(OCCCCOC3=CC4=C(C=C3)CCC(N4)=O)=C2)CC1	Impurity	DCTI-C-2824	7,7'-(butane-1,4-diylbis(oxy))bis(3,4-dihydroquinolin-2(1H)-one)	882880-12-8	NA	C22H24N2O4	380.44
227		Aripiprazole Related Compound F	O=C1NC2=C(C=CC(OCCCC[N+]3([O-])CCN(C4=CC=CC(Cl)=C4Cl)CC3)=C2)CC1	Impurity	DCTI-C-2825	(4-(2,3-dichlorophenyl)-1-[4-(2-oxo-1,2,3,4-tetrahydroquinolin-7-yloxy)butyl]piperazin 1-oxide)	573691-09-5	NA	C23H27Cl2N3O3	464.39
228		Aripiprazole Related compound C	ClC1=C(Cl)C=CC=C1N2CCNCC2.Cl	Impurity	DCTI-C-2831	1-(2,3-dichlorophenyl)piperazine hydrochloride	119532-26-2	NA	C10H13Cl3N2 (HCl Salt)C10H12Cl2N2 (free base)	267.58 (HCl Salt)231.12 (free base)
229		Aripiprazole Isomer	O=C1NC2=C(C(OCCCCN3CCN(C4=CC=CC(Cl)=C4Cl)CC3)=CC=C2)CC1	Impurity	DCTI-C-2832	(5-(4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one)	203395-78-2	NA	C23H27Cl2N3O2	448.39
230		2-Monobromo Aripiprazole Hydrochloride	BrC1=CC=CC=C1N(CC2)CCN2CCCCOC3=CC(N4)=C(CCC4=O)C=C3.Cl	Impurity	DCTI-C-2841	7-(4-(4-(2-bromophenyl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one hydrochloride	2748462-55-5	NA	C23H28BrN3O2 (Free Base) C23H29BrClN3O2 (HCl salt)	458.40 (Free Base) 494.86 (HCl salt)
231		Aripiprazole Related Compound B	O=C(CC1)NC2=C1C=CC(OCCCCO)=C2	Metabolite	DCTI-C-2842	7-(4-hydroxybutoxy)-3,4-dihydroquinolin-2(1H)-one	889443-20-3	NA	C13H17NO3	235.28
232		N-Alkyl Aripiprazole	ClC1=CC=CC(N2CCN(CC2)CCCCOC3=CC=C4C(N(CCCCOC5=CC=C6C(NC(CC6)=O)=C5)C(CC4)=O)=C3)=C1Cl	Impurity	DCTI-C-2848	7-(4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butoxy)-1-(4-((2-oxo-1,2,3,4-tetrahydroquinolin-7-yl)oxy)butyl)-3,4-dihydroquinolin-2(1H)-one	1424857-63-5	NA	C36H42Cl2N4O4	665.65
233		Aripiprazole N-oxide Isomer	O=C1NC2=C(C=CC(OCCCCN3CC[N+](C4=CC=CC(Cl)=C4Cl)([O-])CC3)=C2)CC1	Impurity	DCTI-C-2858	1-(2,3-dichlorophenyl)-4-(4-((2-oxo-1,2,3,4-tetrahydroquinolin-7-yl)oxy)butyl)piperazine 1-oxide	573691-11-9	NA	C23H27Cl2N3O3	464.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
234		Aripiprazole di(quinolinonylbutyl) ether	O=C1NC2=C(C=CC(OCCCCOCCCCOC3=CC4=C(C=C3)CCC(N4)=O)=C2)CC1	Impurity	DCTI-C-2864	7,7'-((oxybis(butane-4,1-diyl))bis(oxy))bis(3,4-dihydroquinolin-2(1H)-one)	1424858-02-5	Aripiprazole di(quinolinonylbutyl) ether analog	C26H32N2O5	452.54
235		4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butan-1-ol	ClC1=C(N2CCN(CCCCO)CC2)C=CC=C1Cl	Impurity	DCTI-C-2879	4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butan-1-ol	870765-38-1	Aripiprazole hydroxybutyl impurity	C14H20Cl2N2O	303.23
236		Aripiprazole Related Compound H	ClC1=C(N2CCN(CCCCOCCCCOC3=CC(NC(CC4)=O)=C4C=C3)CC2)C=CC=C1Cl	Impurity	DCTI-C-2882	7-(4-(4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butoxy)butoxy)-3,4-dihydroquinolin-2(1H)-one	1796928-63-6	NA	C27H35Cl2N3O3	520.49
237		Aripiprazole 4,4'-dimer	O=C1NC2=CC(OCCCCN3CCN(CC3)C4=CC=C(C(C)C5=CC=C(N6CCN(CCCCOC7=CC=C8C(NC(CC8)=O)=C7)CC6)C(Cl)=C5Cl)C(Cl)=C4Cl)=CC=C2CC1	Impurity	DCTI-C-2892	7,7'-((((ethane-1,1-diylbis(2,3-dichloro-4,1-phenylene))bis(piperazine-4,1-diyl))bis(butane-4,1-diyl))bis(oxy))bis(3,4-dihydroquinolin-2(1H)-one)	1797986-18-5	Aripiprazole Dimer	C48H56Cl4N6O4	922.81
238		1-(2,3-dichlorophenyl)-4-nitrosopiperazine	ClC1=C(Cl)C=CC=C1N2CCN(N=O)CC2	NDSRI	DCTI-C-3688	1-(2,3-dichlorophenyl)-4-nitrosopiperazine	2989508-28-1	N-Nitroso Aripiprazole	C10H11Cl2N3O	260.12
239		Aripiprazole Bromobutoxyquinoline Impurity	O=C1NC2=C(C=CC(OCCCCBr)=C2)CC1	IMPURITY	DCTI-C-2844	7-(4-bromobutoxy)-3,4-dihydroquinolin-2(1H)-one	129722-34-5	na	C13H16BrNO2	298.18
240		7-(4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butoxy)-6-methyl-3,4-dihydroquinolin-2(1H)-one	O=C1NC2=C(C=C(C)C(OCCCCN3CCN(C4=CC=CC(Cl)=C4Cl)CC3)=C2)CC1	IMPURITY	DCTI-C-3557	7-(4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butoxy)-6-methyl-3,4-dihydroquinolin-2(1H)-one	NA	Aripiprazole Impurity 5	C24H29Cl2N3O2	462.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
241	Atazanavir	(+)-Tert-butyl ((R)-1-((R)-oxiran-2-yl)-2-phenylethyl) carbamate	O=C(OC(C)(C)C)N[C@@H]([C@@H]1CO1)CC2=CC=CC=C2	impurity	DCTI-C-1880	(+)-tert-butyl ((R)-1-((R)-oxiran-2-yl)-2-phenylethyl) carbamate	NA	Atazanavir epoxide (R,R) isomer, Atazanavir impurity-18	C15H21NO3	263.33
242		ATAZANAVIR SULFATE ATARC-1	O=C(N[C@H](C(C)(C)C)C(N[C@@H]([C@@H](CN(Cc1ccc(c2ccccn2)cc1)NC([C@@H](C(C)(C)C)NC(OC)=O)=O)O)Cc3ccccc3)=O)OC	impurity	DCTI-C-1820	(methyl((5R,10R,11R,14R)-11-benzyl-5-(tert-butyl)-10-hydroxy-15,15-dimethyl-3,6,13-trioxo-8-(4-(pyridin-2-yl)benzyl)-2-oxa-4,7,8,12-tetraazahexadecan-14-yl)carbamate	NA	Atazanavir R,R,R,R isomer, Atazanavir enantiomer	C38H52N6O7	704.87
243		Atazanavir Hydrazine Analog TFA Salt	O[C@H]([C@@H]([NH2]C(C(F)(F)F)=O)CC1=CC=CC=C1)CN(CC2=CC=C(C3=NC=CC=C3)C=C2)[NH2]C(C(F)(F)F)=O	Impurity	DCTI-C-1706	2,2,2-trifluoro-1-(((2S,3S)-3-hydroxy-1-phenyl-4-(1-(4-(pyridin-2-yl)benzyl)-2-(2,2,2-trifluoroacetyl)-2l4-diazaneyl)butan-2-yl)-l4-azaneyl)ethan-1-one	NA	(2S,3S)-3-amino-4-phenyl-1-(1-(4-(pyridin-2-yl)benzyl)hydrazineyl)butan-2-ol	C26H26F6N4O3	556.51
244		Atazanavir EP Impurity B	O=CC1=CC=C(C=C1)C2=NC=CC=C2	Impurity	DCTI-C-2950	4-(pyridin-2-yl)benzaldehyde	127406-56-8	Pyridinyl Benzaldehyde, 2-(p-Formylphenyl)pyridine	C12H9NO	183.21
245		Atazanavir Ditertbutyl Analog	O=C(NN(C[C@H](O)[C@@H](NC(OC(C)(C)C)=O)CC1=CC=CC=C1)CC2=CC=C(C3=NC=CC=C3)C=C2)OC(C)(C)C	Impurity	DCTI-C-3361	tert-butyl 2-((2S,3S)-3-((tert-butoxycarbonyl)amino)-2-hydroxy-4-phenylbutyl)-2-(4-(pyridin-2-yl)benzyl)hydrazine-1-carboxylate	198904-86-8	1.Atazanavir EP Impurity J 2.1,1-Dimethylethyl 2-[(2S,3S)-3-[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxy-4-phenylbutyl]-2-[[4-(2-pyridinyl)phenyl]methyl]hydrazinecarboxylate	C32H42N4O5	562.71
246		Atazanavir Ethyl Analog	O=C([C@H](C(C)(C)C)NC(OCC)=O)NN(CC1=CC=C(C2=CC=CC=N2)C=C1)C[C@H](O)[C@H](CC3=CC=CC=C3)NC([C@H](C(C)(C)C)NC(OC)=O)=O	Impurity	DCTI-C-3439	ethyl ((5S,8S,9S,14S)-8-benzyl-5-(tert-butyl)-9-hydroxy-15,15-dimethyl-3,6,13-trioxo-11-(4-(pyridin-2-yl)benzyl)-2-oxa-4,7,11,12-tetraazahexadecan-14-yl)carbamate	NA	NA	C39H54N6O7	718.9
247		Atazanavir Benzylidenehydrazine Carbamate	O=C(OC)N[C@@H](C(C)(C)C)C(N[C@H]([C@@H](O)CN(CC1=CC=C(C2=NC=CC=C2)C=C1)/N=C/C3=CC=C(C4=NC=CC=C4)C=C3)CC5=CC=CC=C5)=O	Impurity	DCTI-C-3440	Methyl [(S)-1-{[(2S,3S)-3-hydroxy-1-phenyl-4-{1-[4-(pyridin-2-yl)benzyl]-2-[4-(pyridin-2-yl)benzylidene]hydrazinyl}butan-2-yl]amino}-3,3-dimethyl-1-oxobutan-2-yl]carbamate	NA	NA	C42H46N6O4	698.87

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
248		Atazanavir Amine analog	O=C(OC)N[C@@H](C(C)(C)C)C(N[C@@H](CC1=CC=CC=C1)[C@@H](O)CN(CC2=CC=C(C3=NC=CC=C3)C=C2)NC([C@H](C(C)(C)C)N)=O)=O	metabolite	DCTI-C-3488	methyl ((S)-1-(((2S,3S)-4-(2-((S)-2-amino-3,3-dimethylbutanoyl)-1-(4-(pyridin-2-yl)benzyl)hydrazinyl)-3-hydroxy-1-phenylbutan-2-yl)amino)-3,3-dimethyl-1-oxobutan-2-yl)carbamate	1028634-76-5	NA	C36H50N6O5	646.83
249		Atazanavir Dipeptide Analog	O=C([C@H](C(C)(C)C)NC([C@H](C(C)(C)C)NC(OC)=O)=O)NN(CC1=CC=C(C2=CC=CC=N2)C=C1)C[C@H](O)[C@H](CC3=CC=CC=C3)NC([C@H](C(C)(C)C)NC(OC)=O)=O	IMPURITY	DCTI-C-3502	methyl ((5S,8S,13S,14S,17S)-14-benzyl-5,8-di-tert-butyl-13-hydroxy-18,18-dimethyl-3,6,9,16-tetraoxo-11-(4-(pyridin-2-yl)benzyl)-2-oxa-4,7,10,11,15-pentaazanonadecan-17-yl)carbamate	NA	NA	C44H63N7O8	818.03
250		Atazanavir Valine Analog	O=C(OC)N[C@@H](C(C)(C)C)C(N[C@@H](CC1=CC=CC=C1)[C@@H](O)CN(CC2=CC=C(C3=NC=CC=C3)C=C2)NC([C@H](C(C)(C)C)NC(OC)=O)=O)=O	IMPURITY	DCTI-C-3509	methyl ((5S,10S,11S,14S)-11-benzyl-5-(tert-butyl)-10-hydroxy-15-methyl-3,6,13-trioxo-8-(4-(pyridin-2-yl)benzyl)-2-oxa-4,7,8,12-tetraazahexadecan-14-yl)carbamate	NA	NA	C37H50N6O7	690.84
251		Atazanavir Formyl Analog	O=C(OC)N[C@@H](C(C)(C)C)C(N[C@@H](CC1=CC=CC=C1)[C@@H](O)CN(CC2=CC=C(C3=NC=CC=C3)C=C2)NC([C@H](C(C)(C)C)NC=O)=O)=O	IMPURITY	DCTI-C-3512	methyl ((S)-1-(((2S,3S)-4-(2-((S)-2-formamido-3,3-dimethylbutanoyl)-1-(4-(pyridin-2-yl)benzyl)hydrazinyl)-3-hydroxy-1-phenylbutan-2-yl)amino)-3,3-dimethyl-1-oxobutan-2-yl)carbamate	NA	NA	C37H50N6O6	674.84
252	**Atenolol**	N-Nitroso Atenolol Impurity	O=C(N)CC1=CC=C(OCC(O)CN(C(C)C)N=O)C=C1	NDSRI	DCTI-C-2573	2-(4-(2-hydroxy-3-(isopropyl(nitroso)amino)propoxy) phenyl)acetamide	134720-04-0	NA	C14H21N3O4	295.34
253	**Atomoxetine**	N-Nitroso atomoxetine (Mixture of isomers)	CC(C=CC=C1)=C1O[C@@H](C2=CC=CC=C2)CCN(N=O)C	NDSRI	DCTI-C-3420	(R)-N-methyl-N-(3-phenyl-3-(o-tolyloxy)propyl)nitrous amide	NA	NA	C17H20N2O2	284.36
254		2-hydroxynaphthalene-1,4-dione	O=C1C=C(O)C(C2=C1C=CC=C2)=O	Impurity	DCTI-C-3049	2-hydroxynaphthalene-1,4-dione	83-72-7	Lawsone	C10H6O3	174.16
255	**Atovaquone**	4-(4-chlorophenyl)cyclohexane-1-carboxylic acid	ClC1=CC=C(C2CCC(C(O)=O)CC2)C=C1	Impurity	DCTI-C-3055	4-(4-chlorophenyl)cyclohexane-1-carboxylic acid	95233-37-7	NA	C13H15ClO2	238.71

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
256		2,3-dichloronaphthalene-1,4-dione	O=C(C1=C2C=CC=C1)C(Cl)=C(Cl)C2=O	Impurity	DCTI-C-3062	2,3-dichloronaphthalene-1,4-dione	117-80-6	Dichlon	C10H4Cl2O2	227.04
257	**Atorvastatin**	Atorvastatin Lactone	O=C1C[C@@H](C[C@@H](CCN2C(C(C)C)=C(C(NC3=CC=CC=C3)=O)C(C4=CC=CC=C4)=C2C5=CC=C(F)C=C5)O1)O	Impurity	DCTI-C-737	5-(4-fluorophenyl)-1-(2-((2R,4R)-4-hydroxy-6-oxotetrahydro-2H-pyran-2-yl)ethyl)-2-isopropyl-N,4-diphenyl-1H-pyrrole-3-carboxamide	125995-03-1	Atorvastatin EP Impurity H	C33H33FN2O4	540.64
258	**Arginine**	N2-(Aminocarbonyl)-L-arginine	OC([C@@H](NC(N)=O)CCCNC(N)=N)=O	Impurity	DCTI-C-522	carbamoyl-L-arginine; N-Alpha-Carbamyl-L-Arginine	15920-89-5	NSC 135787	C7H15N5O3	217.23
259	**Avacopan**	Avacopan metabolite M1 (Mixture of isomers)	O=C(C1CCCN(C(C2=C(C=CC=C2C)F)=O)C1C3=CC=C(C=C3)NC4CCCC4)NC(C=C5C(F)(F)F)=CC=C5CO	Metabolites	DCTI-C-3631	2-(4-(cyclopentylamino)phenyl)-1-(2-fluoro-6-methylbenzoyl)-N-(4-(hydroxymethyl)-3-(trifluoromethyl)phenyl)piperidine-3-carboxamide	NA	NA	C33H35F4N3O3	597.65
260	**Azacitidine**	Azacitidine Related Compound C / 1-Beta-D-Ribofuranosyl-3-Guanyl Urea Picrate	O=C(/N=C(N)\N)N[C@H]1[C@@H]([C@@H]([C@@H](CO)O1)O)O.OC2=C([N+]([O-])=O)C=C([N+]([O-])=O)C=C2[N+]([O-])=O	Impurity	DCTI-C-406	Urea, N-(aminoiminomethyl)-N'-b-D-ribofuranosyl. with 2,4,6-trinitrophenol	4336-46-3	NSC 232826	C13H17N7O12 (Picrate Salt) C7H14N4O5 (Free base)	463.32 (Picrate salt) 234.21 (Free base)
261		Azelastine EP Impurity B	O=C(C1=CC=CC=C1)NNC2CCN(CCC2)C.Cl	impurity	DCTI-C-1969	N'-(1-methylazepan-4-yl)benzohydrazide hydrochloride	110406-94-5 (free acid)	Azelastine EP Impurity B; Azelastine USP Related Compound B; Benzoic Acid 2-(hexahydro-1-methyl-1H-azepin-4-yl)hydrazide Hydrochloride; N'-(1-Methylazepan-4-yl)benzohydrazide; 1-Benzoyl-2-[(4RS)-1-methylhexahydro-1H-azepin-4-yl]diazane	C14H21N3O (Free base) C14H22ClN3O (HCl salt)	247.34 (Free base) 283.80 (HCl salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
262	Azelastine	Azelastine related compound D	O=C1C2=C(C(CC3=CC=C(C=C3)Cl)=NN1)C=CC=C2	impurity	DCTI-C-1970	4-(4-chlorobenzyl)phthalazin-1(2H)-one	53242-88-9	4-p-Chlorobenzyl-1(2H)-phthalazinone;4-(4-Chlorobenzyl)-1(2H)-phthalazinone; Azelastine EP Impurity D	C15H11ClN2O	270.72
263		Azelastine HCl Isomer	O=C1C2=CC=CC=C2C(CC3=CC=C(Cl)C=C3)=NN1CCC4N(C)CCC4.Cl	IMPURITY	DCTI-C-2759	4-(4-chlorobenzyl)-2-(2-(1-methylpyrrolidin-2-yl)ethyl)phthalazin-1(2H)-one hydrochloride	117078-70-3 (HCl salt)	Azelastine 5-Membered Cyclic Isomer HCl	C22H24ClN3O (Free base);C22H25Cl2N3O (HCl salt)	381.90 (Free base); 418.36 (HCl salt)
264		Azelastine 3-Chloro-Isomer.HCl	O=C1C2=C(C(CC3=CC=CC(Cl)=C3)=NN1C4CCN(CCC4)C)C=CC=C2.Cl	Impurity	DCTI-C-3477	4-(3-chlorobenzyl)-2-(1-methylazepan-4-yl)phthalazin-1(2H)-one hydrochloride	37933-01-0 (Free base)	NA	C22H24ClN3O (Free base) C22H25Cl2N3O (HCl salt)	381.90 (Free base) 418.36 (HCl salt)
265	Azelnidipine	Azelnidipine Impurity 1	OC(C(NC(C)=C1C(OC(C)C)=O)=O)C1C2=CC([N+](=O)[O-])=O)=CC=C2	impurity	DCTI-C-1149	isopropyl 5-hydroxy-2-methyl-4-(3-nitrophenyl)-6-oxo-1,4,5,6-tetrahydropyridine-3-carboxylate	1360462-97-0	NA	C16H18N2O6	334.33
266		Azilsartan Impurity 23 (A-8443)	O=C(C(C=CC=C1N2)=C1N(CC3=CC=C(C4=C(C(NO)=N)C=CC=C4)C=C3)C2=O)O	Impurity	DCTI-C-1334	3-((2'-(N-hydroxycarbamimidoyl)-[1,1'-biphenyl]-4-yl)methyl)-2-oxo-2,3-dihydro-1H-benzo[d]imidazole-4-carboxylic acid	1821386-21-3	2,3-Dihydro-3-[[2'-[(hydroxyamino)iminomethyl][1,1'-biphenyl]-4-yl]methyl]-2-oxo-1H-benzimidazole-4-carboxylic acid	C22H18N4O4	402.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
267	Azilsartan	Azilsartan AZLRC-10	O=C(C1=C2N(CC3=CC=C(C4=CC=CC=C4C(N5)=NOC5=O)C=C3)C(OCC)=NC2=CC=C1)OC6=NC7=CC=CC(C(OCC8=C(C)OC(O8)=O)=O)=C7N6CC9=CC=C(C%10=CC=CC=C%10C(N%11)=NOC%11=O)C=C9	impurity	DCTI-C-1821	7-(((5-methyl-2-oxo-1,3-dioxol-4-yl)methoxy)carbonyl)-1-((2'-(5-oxo-2,5-dihydro-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d]imidazol-2-yl 2-etho xy-1-((2'-(5-oxo-2,5-dihydro-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d]imidazole-7-carboxylate	NA	Azilsartan Medoxomil Dimer Impurity; AZLRC-10; Azilsartan Medoxomil Dimer-4	C53H38N8O12	978.93
268		Azilsartan Hydroxy Acid	O=C(C1=CC=CC2=C1N(CC3=CC=C(C4=C(C(NO)=N)C=CC=C4)C=C3)C(OCC)=N2)O	Impurity	DCTI-C-1335	2-ethoxy-1-((2'-(N-hydroxycarbamimidoyl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d] imidazole-7-carboxylic acid	1397836-49-5	2-Ethoxy-1-[[2'-(N'-hydroxycarbamimidoyl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylic Acid	C24H22N4O4	430.46
269		Ethyl-2-ethoxy-3-((2'-(N'-hydroxycarbaMiMidoyl)	O=C(C1=CC=CC2=C1N(CC3=CC=C(C4=C(C(NO)=N)C=CC=C4)C=C3)C(OCC)=N2)OCC	Impurity	DCTI-C-1336	ethyl 2-ethoxy-1-((2'-(N-hydroxycarbamimidoyl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo [d]imidazole-7-carboxylate	1397836-41-7	2-Ethoxy-1-[[2'-((hydroxyamino)(imino)methyl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylic acid ethyl ester; 1H-Benzimidazole-7-carboxylic acid, 2-ethoxy-1-[[2'-[(hydroxyamino)imino methyl][1,1'-biphenyl]-4-yl]methyl]-, ethyl ester; Azilsartan Ethylester impurity	C26H26N4O4	458.52
270		Azilsartan Medoxomil-Desethoxy Impurity	O=C(C1=C2N(CC3=CC=C(C4=CC=CC=C4C(N5)=NOC5=O)C=C3)C(O)=NC2=CC=C1)OCC6=C(C)OC(O6)=O	Impurity	DCTI-C-2645	(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl 2-hydroxy-1-((2'-(5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d]imidazole-7-carboxylate	NA	Desethyl Azilsartan Medoxomil; Azilsartan Des-Ethyl Impurity; Azilsartan impurity 6	C28H20N4O8	540.49

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
271		Azilsartan medoxomil-Amide Impurity	O=C(C1=C2N(CC3=CC=C(C4=CC=CC=C4C(N)=O)C=C3)C(OCC)=NC2=CC=C1)OCC5=C(C)OC(O5)=O	Impurity	DCTI-C-2646	(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl 1-((2'-carbamoyl-[1,1'-biphenyl]-4-yl)methyl)-2-ethoxy-1H-benzo[d]imidazole-7-carboxylate	1696392-12-7	Azilsartan Amide Medoxomil; Azilsartan Impurity Q	C29H25N3O7	527.53
272		Azilsartan medoxomil-Dimer Impurity	O=C(C1=C2N(CC3=CC=C(C4=CC=CC=C4C(N5CC6=C(C)OC(O6)=O)=NOC5=O)C=C3)C(OCC)=NC2=CC=C1)OCC7=C(C)OC(O7)=O	Impurity	DCTI-C-2647	(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl 2-ethoxy-1-((2'-(4-((5-methyl-2-oxo-1,3-dioxol-4-yl)methyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d]imidazole-7-carboxylate	1604812-35-2	Azilsartan Bis Impurity; Azilsartan Impurity R; Azilsartan Dimer	C35H28N4O11	680.63
273		2'-Carboxy Azilsartan Methyl Ester	O=C(C1=C(C2=CC=C(CN3C(OCC)=NC4=C3C(C(OC)=O)=CC=C4)C=C2)C=CC=C1)O	IMPURITY	DCTI-C-3223	4'-((2-ethoxy-7-(methoxycarbonyl)-1H-benzo[d]imidazol-1-yl)methyl)-[1,1'-biphenyl]-2-carboxylic acid	1675221-59-6	NA	C25H22N2O5	430.46
274		Ethyl 3-amino-2-(((2'-cyano-[1,1'-biphenyl]-4-yl)methyl)amino)benzoate	N#CC1=C(C2=CC=C(CNC3=C(C(OCC)=O)C=CC=C3N)C=C2)C=CC=C1	IMPURITY	DCTI-C-3254	ethyl 3-amino-2-(((2'-cyano-[1,1'-biphenyl]-4-yl)methyl)amino)benzoate	136285-69-3	3-Amino-2-[[(2'-cyano[1,1'-biphenyl]-4-yl)methyl]amino]benzoic acid ethyl ester	C23H21N3O2	371.44
275		2'-Carbamoyl Azilsartan	OC(C1=CC=CC2=C1N(CC3=CC=C(C4=C(C(N)=O)C=CC=C4)C=C3)C(OCC)=N2)=O	Impurity	DCTI-C-3291	1-((2'-carbamoyl-[1,1'-biphenyl]-4-yl)methyl)-2-ethoxy-1H-benzo[d]imidazole-7-carboxylic acid	1696392-11-6	NA	C24H21N3O4	415.45
276		Desethylazilsartan Nitrile Methyl Ester	O=C(C1=C(N2CC3=CC=C(C4=CC=CC=C4C#N)C=C3)C(NC2=O)=CC=C1)OC	Impurity	DCTI-C-3198	Methyl 3-((2'-cyano-[1,1'-biphenyl]-4-yl)methyl)-2-oxo-2,3-dihydro-1H-benzo[d]imidazole-4-carboxylate	139481-33-7	NA	C23H17N3O3	383.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
277	Aztreonam	Aztreonam Ethyl ester	CC(C)(O/N=C(C1=CSC(N)=N1)\C(N[C@H]2[C@H](C)N(S(=O)(O)=O)C2=O)=O)C(OCC)=O	Impurity	DCTI-C-1719	(2S,3S)-3-((Z)-2-(2-aminothiazol-4-yl)-2-(((1-ethoxy-2-methyl-1-oxopropan-2-yl)oxy)imino)acetamido)-2-methyl-4-oxoazetidine-1-sulfonic acid	NA	Aztreonam Impurity F	C15H21N5O8S2	463.48
278		Aztreonam tert-butyl ester	CC(C)(O/N=C(C1=CSC(N)=N1)\C(N[C@H]2[C@H](C)N(S(=O)(O)=O)C2=O)=O)C(OC(C)(C)C)=O	Impurity	DCTI-C-1457	(2S,3S)-3-((Z)-2-(2-aminothiazol-4-yl)-2-(((1-(tert-butoxy)-2-methyl-1-oxopropan-2-yl)oxy)imino)acetamido)-2-methyl-4-oxoazetidine-1-sulfonic acid	330944-50-8	Tert-Butyl Aztreonam; Aztreonam tert-butyl impurity	C17H25N5O8S2	491.53
279	Baclofen	Baclofen impurity 4	ClC1=CC=C(C(CN2C(C(CC(O)=O)(O)CC2=O)=O)CC(O)=O)C=C1	impurity	DCTI-C-1882	4-(3-(carboxymethyl)-3-hydroxy-2,5-dioxopyrrolidin-1-yl)-3-(4-chlorophenyl)butanoic acid	NA	1-pyrrolidinebutanoic acid, 3-(carboxymethyl)-β-(4-chlorophenyl)-3-hydroxy-2,5-dioxo-	$C_{16}H_{16}ClNO_7$	369.75
280		Baclofen butyl ester HCl	ClC1=CC=C(C(CN)CC(OCCCC)=O)C=C1.Cl	impurity	DCTI-C-1881	butyl 4-amino-3-(4-chlorophenyl)butanoate hydrochloride	NA	Benzenepropanoic acid, β-(aminomethyl)-4-chloro-,butyl ester hydrochloride; Butyl β-aminomethyl)-4-chlorobenzepropanoate hydrochloride.	$C_{14}H_{20}ClNO_2$ (Free base) $C_{14}H_{21}Cl_2NO_2$ (HCl salt)	269.77 (Free base) 306.23 (HCl salt)
281		Diethyl 2-(4-chlorophenyl)-4-hydroxy-4-methyl-6-oxocyclohexane-1,3-dicarboxylate	O=C(C1C(C2=CC=C(Cl)C=C2)C(C(OCC)=O)C(C)(O)CC1=O)OCC	impurity	DCTI-C-1025	Diethyl 2-(4-chlorophenyl)-4-hydroxy-4-methyl-6-oxocyclohexane-1,3-dicarboxylate	294194-13-1	Baclofen impurity; 1,3-Cyclohexanedicarboxylic acid, 2-(4-chlorophenyl)-4-hydroxy-4-methyl-6-oxo-, 1,3-diethyl ester	C19H23ClO6	382.84

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
282		(R)-Baclofen Hydrochloride	O=C(O)C[C@H](C1=CC=C(Cl)C=C1)CN.Cl	Labelled Standard	DCTI-A-184	(R)-4-amino-3-(4-chlorophenyl)butanoic acid hydrochloride	63701-55-3	(R)-4-Amino-3-(4-chlorophenyl)butanoic Acid Hydrochloride; (R)-4-Amino-3-(4-chlorophenyl)butyric Acid Hydrochloride; (R)-Baclofen Monohydrochloride;	C10H13Cl2NO2 (HCl Salt) C10H12ClNO2 (Free base)	250.12 (HCl Salt) 213.66 (Free base)
283		(S)-Baclofen Hydrochloride	O=C(O)C[C@@H](C1=CC=C(Cl)C=C1)CN.Cl	Labelled Standard	DCTI-A-185	(S)-4-amino-3-(4-chlorophenyl)butanoic acid hydrochloride	63701-56-4	NA	C10H13Cl2NO2 (HCl Salt) C10H12ClNO2 (Free base)	250.12 (HCl Salt) 213.66 (Free base)
284	**Baloxavir**	Baloxavir Sulfoxide Impurity	COC(OCOC1=C2N(C=CC1=O)N([C@H]3C4=CC=C(F)C(F)=C4CS(C5=CC=CC=C53)=O)[C@@]6([H])N(CCOC6)C2=O)=O	Impurity	DCTI-C-3722	(((12aR)-12-((11S)-7,8-difluoro-5-oxido-6,11-dihydrodibenzo[b,e]thiepin-11-yl)-6,8-dioxo-3,4,6,8,12,12a-hexahydro-1H-[1,4]oxazino[3,4-c]pyrido[2,1-f][1,2,4]triazin-7-yl)oxy)methyl methyl carbonate	NA	NA	C27H23F2N3O8S	587.55
285		Baloxavir Sulfone Impurity	O=C(OC)OCOC1=C(C2=O)N(N([C@]3(N2CCOC3)[H])[C@@H]4C5=CC=CC=C5S(CC6=C(C(F)=CC=C46)F)(=O)=O)C=CC1=O	Impurity	DCTI-C-3721	(((R)-12-((S)-7,8-difluoro-5,5-dioxido-6,11-dihydrodibenzo[b,e]thiepin-11-yl)-6,8-dioxo-3,4,6,8,12,12a-hexahydro-1H-[1,4]oxazino[3,4-c]pyrido[2,1-f][1,2,4]triazin-7-yl)oxy)methyl methyl carbonate	NA	NA	C27H23F2N3O9S	603.55
286		Baricitinib Acid Impurity	O=S(N(C1)CC1(CC(O)=O)N2N=CC(C3=C(C=CN4)C4=NC=N3)=C2)(CC)=O	Impurity	DCTI-C-294	2-(3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-1-(ethylsulfonyl)azetidin-3-yl)acetic acid	2271228-52-3	Baricitinib Acetic Acid Impurity	C16H18N6O4S	390.42
287		4-(1H-pyrazol-4-yl)-7H-pyrrolo[2,3-d]pyrimidine	C1(C2=C3C=CNC3=NC=N2)=CNN=C1	impurity	DCTI-C-1824	4-(1H-pyrazol-4-yl)-7H-pyrrolo[2,3-d]pyrimidine	NA	4-{7H-pyrrolo[2,3-d]pyrimidin-4-yl}-1H-pyrazole	C9H7N5	185.19

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
288	Baricitinib	2-(1-(ethylsulfonyl)-3-(4-(7-(hydroxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)azetidin-3-yl)acetonitrile	OCN1C=CC2=C(C3=CN(C4(CC#N)CN(S(CC)(=O)=O)C4)N=C3)N=CN=C21	Impurity	DCTI-C-295	2-(1-(ethylsulfonyl)-3-(4-(7-(hydroxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)azetidin-3-yl)acetonitrile	1187595-89-6	N-7-Hydroxymethyl Baricitinib	C17H19N7O3S	401.45
289		1,5-bis(1-ethoxyethyl)-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazole	CC(OCC)N1C(C(C)OCC)=C(B2OC(C)(C)C(C)(C)O2)C=N1	Impurity	DCTI-C-346	1,5-bis(1-ethoxyethyl)-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazole	NA	NA	C17H31BN2O4	338.26
290		1,3-bis(1-ethoxyethyl)-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazole	CC(OCC)N1C=C(B2OC(C)(C)C(C)(C)O2)C(C(OCC)C)=N1	Impurity	DCTI-C-347	1,3-bis(1-ethoxyethyl)-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazole	NA	NA	C17H31BN2O4	338.26
291		Baricitinib Amide Impurity	CCS(N(C1)CC1(CC(N)=O)N2N=CC(C3=C(C=CN4)C4=NC=N3)=C2)(=O)=O	impurity	DCTI-C-1154	2-(3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-1-(ethylsulfonyl)azetidin-3-yl)acetamide	2271228-51-2	Baricitinib Impurity 1	C16H19N7O3S	389.43

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
292		N-((3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-5-oxotetrahydrofuran-3-yl)methyl)ethanesulfonamide	O=C(OC1)CC1(CNS(=O)(CC)=O)N(N=C2)C=C2C3=C(C=CN4)C4=NC=N3	impurity	DCTI-C-1822	N-((3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-5-oxotetrahydrofuran-3-yl)methyl)ethanesulfonamide	NA	Baricitinib Lactone impurity	C16H18N6O4S	390.42
293		2-(1-(ethylsulfonyl)-3-(4-(7-((2-(trimethylsilyl)ethoxy)methyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)azetidin-3-yl)acetonitrile	N#CCC1(N2N=CC(C3=C4C(N(COCC[Si](C)(C)C)C=C4)=NC=N3)=C2)CN(S(=O)(CC)=O)C1	IMPURITY	DCTI-C-1823	2-(1-(ethylsulfonyl)-3-(4-(7-((2-(trimethylsilyl)ethoxy)methyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)azetidin-3-yl)acetonitrile	1187594-13-3	Baricitinib SEM impurity	C22H31N7O3SSi	501.68
294	**Beclomethasone**	Beclomethasone EP impurity F	O=C(CC)OCC([C@@]1([C@@]2(C)C[C@@H]([C@@]3([C@]4(C)C([C@@H](Br)C[C@H]3[C@@H]2C[C@@H]1C)=CC(C=C4)=O)Cl)O)OC(CC)=O)=O	impurity	DCTI-C-1017	(6S,8S,9R ,10S,11S,13S,14S,16S,17R)-6-bromo-9-chloro-11-hydroxy-10,13,16-trimethyl-3-oxo-17-(2-(propionyloxy)acetyl)-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl propionate	887130-69-0	Beclometasone Dipropionate EP Impurity F	C28H36BrClO7	599.94
295		N-Nitroso-N-Desmethyl Bedaquiline	COC1=NC2=C(C=C(C=C2)Br)C=C1[C@@H](C3=CC=CC=C3)[C@](O)(C4=CC=CC5=C4C=CC=C5)CCN(N=O)C	NDSRI	DCTI-C-3491	N-((3S,4R)-4-(6-bromo-2-methoxyquinolin-3-yl)-3-hydroxy-3-(naphthalen-1-yl)-4-phenylbutyl)-N-methylnitrous amide	NA	NA	C31H28BrN3O3	570.49
296	**Bedaquiline**	Racemic Bedaquiline Diastereomer Impurity	COC1=NC2=C(C=C(C=C2)Br)C=C1[C@@H](C3=CC=CC=C3)[C@@](O)(C4=CC=CC5=C4C=CC=C5)CCN(C)C	Impurity	DCTI-C-2869	(1R,2R)-1-(6-bromo-2-methoxyquinolin-3-yl)-4-(dimethylamino)-2-(naphthalen-1-yl)-1-phenylbutan-2-ol & (1S,2S)-1-(6-bromo-2-methoxyquinolin-3-yl)-4-(dimethylamino)-2-(naphthalen-1-yl)-1-phenylbutan-2-ol	NA	Bedaquiline standard diastereomer impurity	C32H31BrN2O2	555.52

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
297		Bedaquiline Enatiomer	[C@@]([C@H](C=1C(OC)=NC2=C(C1)C=C(Br)C=C2)C3=CC=CC=C3)(CCN(C)C)(O)C=4C5=C(C=CC4)C=CC=C5	Impurity	DCTI-C-2956	(1S,2R)-1-(6-bromo-2-methoxyquinolin-3-yl)-4-(dimethylamino)-2-(naphthalen-1-yl)-1-phenylbutan-2-ol	857086-93-2	Bedaquiline Enatiomer	C32H31BrN2O2	555.52
298	**Belumosudil**	Belumosudil Metabolite KD025M2	OC(COC1=CC(C2=NC3=CC=CC=C3C(NC4=CC(C=NN5)=C5C=C4)=N2)=CC=C1)=O	IMPURITY	DCTI-C-3218	2-(3-(4-((1H-indazol-5-yl)amino)quinazolin-2-yl)phenoxy)acetic acid	911417-62-4	2-(3-(4-((1H-indazol-5-yl)amino)quinazolin-2-yl)phenoxy)acetic acid	C23H17N5O3	411.42
299	**Bempedoic acid**	Diethyl 8-isocyano-2,2,14,14-tetramethyl-8-tosylpentadecanedioate	O=C(OCC)C(C)(C)CCCCCC(S(=O)(C1=CC=C(C)C=C1)=O)([N+]#[C-])CCCCCC(C)(C)C(OCC)=O	IMPURITY	DCTI-C-3245	diethyl 8-isocyano-2,2,14,14-tetramethyl-8-tosylpentadecanedioate	738606-44-5	NA	C31H49NO6S	563.79
300		Diethyl 2,2,8,8-tetramethylnonanedioate	O=C(OCC)C(C)(C)CCCCCC(C)(C)C(OCC)=O	Impurity	DCTI-C-3471	Diethyl 2,2,8,8-tetramethylnonanedioate	NA	NA	C17H32O4	300.44
301		2,2,8,8-tetramethylnonanedioic acid	O=C(O)C(C)(C)CCCCCC(C)(C)C(O)=O	IMPURITY	DCTI-C-3478	2,2,8,8-tetramethylnonanedioic acid	NA	NA	C13H24O4	244.33
302		2,2,14,14-tetramethyl-8-oxopentadecanedioic acid	O=C(O)C(C)(C)CCCCCC(CCCCCC(C)(C)C(O)=O)=O	IMPURITY	DCTI-C-3479	2,2,14,14-tetramethyl-8-oxopentadecanedioic acid	413624-71-2	Bempedoic acid keto Impurity	C19H34O5	342.48
303	**Benazepril**	Benazepril Hydrochloride EP Impurity F	O=C(CN1C([C@H](CCC2=CC=CC=C21)N)=O)OC(C)(C)C	Impurity	DCTI-C-2969	tert-butyl (S)-2-(3-amino-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b]azepin-1-yl)acetate	109010-60-8	Benazepril USP Related Compound F	C16H22N2O3	290.36
304		N-Nitroso Benazepril (Mixture of Isomers)	OC(CN1C2=CC=CC=C2CC[C@@H](C1=O)N(N=O)[C@H](C(OCC)=O)CCC3=CC=CC=C3)=O	NDSRI	DCTI-C-3302	2-((S)-3-(((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)(nitroso)amino)-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b]azepin-1-yl)acetic acid	NA	NA	C24H27N3O6	453.5

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
305		Benazepril EP Impurity A (TFA salt)	O=C(CN1C([C@@H](CCC2=CC=CC=C21)N[C@H](CCC3=CC=CC=C3)C(OCC)=O)=O)O.FC(F)(F)C(O)=O	Impurity	DCTI-C-3303	2-((R)-3-(((R)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)amino)-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b]azepin-1-yl)acetic acid trifluoroacetate	131064-75-0 (Free base)	Benazepril Enantiomer; Benazepril Hydrochloride EP Impurity A	Free base:C24H28N2O5;TFA salt: C26H29F3N2O7	TFA salt: 538.52;Free base: 424.50
306		Bendamustine Glycerol Ester Impurity	CN(C(CCCC(OCC(O)CO)=O)=N1)C2=C1C=C(N(CCCl)CCCl)C=C2	Impurity	DCTI-C-001	2,3-dihydroxypropyl 4-(5-(bis(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoate	NA	NA	C19H27Cl2N3O4	432.34
307		Bendamustine Acetate Impurity	CN(C(CCCC(O)=O)=N1)C2=C1C=C(N(CCOC(C)=O)CCCl)C=C2	Impurity	DCTI-C-002	4-(5-((2-acetoxyethyl)(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoic acid	NA	NA	C18H24ClN3O4	381.86
308		Bendamustine HP-1 Impurity	O=C(O)CCCC1=NC2=CC(N(CCCl)CCO)=CC=C2N1C	metabolite	DCTI-C-494	4-(5-((2-chloroethyl)(2-hydroxyethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoic acid	109882-27-1	Bendamustin Impurity-A	C16H22ClN3O3	339.82

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
309	Bendamustine	Bendamustine N-Alkylated Impurity	O=C(O)CCCC1=NC2=CC(NCCCl)=CC=C2N1C.Cl	Impurity	DCTI-C-553	4-(5-((2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoic acid	1797881-48-1	N-Alkylated impurity USP Related compound-D	C14H19Cl2N3O2 (HCl Salt) C14H18ClN3O2 (Free base)	332.23 (HCl Salt) 295.77 (Free base)
310		Bendamustine Related Compound B	CN1C(CCCC(O)=O)=NC2=CC(N3CCOCC3)=CC=C21	Impurity	DCTI-C-554	4-(1-methyl-5-morpholino-1H-benzo[d]imidazol-2-yl)butanoic acid	1228552-02-0	Bendamustine Impurity B	C16H21N3O3	303.36
311		Bendamustine Dihyroxy Impurity	CN1C(CCCC(O)=O)=NC2=CC(N(CCO)CCO)=CC=C21	metabolite	DCTI-C-555	4-(5-(bis(2-hydroxyethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoic acid	109882-30-6	NA	C16H23N3O4	321.38
312		Bendamustine Related Compound C	CN1C(CCCC(OCC)=O)=NC2=CC(N(CCO)CCO)=CC=C21	Impurity	DCTI-C-556	ethyl 4-(5-(bis(2-hydroxyethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoate	3543-74-6	NA	C18H27N3O4	349.43
313		Bendamustine Isopropyl Ester	ClCCN(C1=CC=C2N(C(CCCC(OC(C)C)=O)=NC2=C1)C)CCCl	Impurity	DCTI-C-557	isopropyl 4-(5-(bis(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoate	1313020-25-5	NA	C19H27Cl2N3O2	400.34

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
314		Bendamustine Related Compound I	CN1C(CCCC(OCC)=O)=NC2=CC(N(CCCl)CCCl)=CC=C21	Impurity	DCTI-C-558	ethyl 4-(5-(bis(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoate	87475-54-5	Bendamustine Impurity 11	C18H25Cl2N3O2	386.32
315		Bendamustine Related Impurity-F	CN(C(CCCC(OCC(O)C(O)C(C(O)CO)O)=O)=N1)C2=C1C=C(N(CCCl)CCCl)C=C2	Impurity	DCTI-C-656	2,3,4,5,6-pentahydroxyhexyl 4-(5-(bis(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoate	NA	Bendamustine Mannitol Ester	C22H33Cl2N3O7	522.42
316		Bendamustine methyl ester	O=C(OC)CCCC1=NC2=CC(N(CCCl)CCCl)=CC=C2N1C	Impurity	DCTI-C-678	methyl 4-(5-(bis(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoate	109882-25-9	NA	C17H23Cl2N3O2	372.29
317		Bendamustine USP Related Compound H	O=C(O)CCCC1=NC2=CC(N(CCOC(CCCC3=NC4=CC(N(CCCl)CCCl)=CC=C4N3C)=O)CCCl)=CC=C2N1C	Impurity	DCTI-C-887	4-[5-({2-[(4-{5-[Bis(2-chloroethyl)amino]-1-methyl-1H-benzimidazol-2-yl}butanoyl)oxy]ethyl}(2-chloroethyl)amino)-1-methyl-1H-benzimidazol-2-yl]butanoic acid	1228551-91-4	Bendamustine Dimer	C32H41Cl3N6O4	680.07

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
318	**Benfotiamine**	Di ester base of benfotiamine Formate salt	C/C(N(C=O)CC(C=NC(C)=N1)=C1N)=C(CCOP(OCC/C(SC(C2=CC=CC=C2)=O)=C(C)/N(C=O)CC(C=NC(C)=N3)=C3N)(O)=O)/SC(C4=CC=CC=C4)=O.[H]C([O-])=O	Impurity	DCTI-C-1458	S,S'-((3Z,3'Z)-((hydroxyphosphoryl)bis(oxy))bis(4-(N-((4-amino-2-methylpyrimidin-5-yl)methyl)formamido)pent-3-ene-1,3-diyl)) dibenzothioate, formate salt	NA	NA	C38H43N8O8PS2 (Free base)C39H44N8O10PS2 (Salt)	834.9 (Free base) 879.9 (Salt)
319		Benfotiamine Amide Impurity	O=C(C1=CC=CC=C1)S/C(CCOP(O)(O)=O)=C(N(CC2=CN=C(C)N=C2NC(C3=CC=CC=C3)=O)C=O)/C	IMPURITY	DCTI-C-2414	(Z)-S-(2-(N-((4-benzamido-2-methylpyrimidin-5-yl)methyl)formamido)-5-(phosphonooxy)pent-2-en-3-yl) benzothioate	2643982-77-6	NA	C26H27N4O7PS	570.56
320	**Benvitimod**	Z-Benvitimod	OC1=C(C(C)C)C(O)=CC(/C=C\C2=CC=CC=C2)=C1	IMPURITY	DCTI-C-2777	(Z)-2-isopropyl-5-styrylbenzene-1,3-diol	1622988-14-0	Cis-Benvitimod	C17H18O2	254.33
321	**BENZTROPINE**	N-NITROSO DESMETHYL BENZTROPINE	O=NN1C2CC(OC(C3=CC=CC=C3)C4=CC=CC=C4)CC1CC2	NDSRI	DCTI-C-3749	3-(benzhydryloxy)-8-nitroso-8-azabicyclo[3.2.1]octane	NA	NA	C20H22N2O2	322.41
322	**benzoxazole**	2,5,7-Trichloro-1,3-benzoxazole	ClC1=C(OC(Cl)=N2)C2=CC(Cl)=C1	IMPURITY	DCTI-C-3246	2,5,7-trichlorobenzo[d]oxazole	02-01-6481	2,5,7-Trichlorobenzoxazole	C7H2Cl3NO	222.45
323	**Benzodioxole carbonitrile**	7-(1-bromo-2-oxopropyl)benzo[d][1,3]dioxole-4-carbonitrile	N#CC1=C2OCOC2=C(C(Br)C(C)=O)C=C1	IMPURITY	DCTI-C-2487	7-(1-bromo-2-oxopropyl)benzo[d][1,3]dioxole-4-carbonitrile	NA	NA	C11H8BrNO3	282.09
324	**Benzo imidazole derivative**	N,N,2-trimethyl-1H-benzo[d]imidazole-6-carboxamide	Cl.O=C(C=1C=CC=2N=C(NC2C1)C)N(C)C	Impurity	DCTI-C-2756	N,N,2-trimethyl-1H-benzo[d]imidazole-6-carboxamide hydrochloride	95533-65-6	Benzo imidazole derivative	C11H14ClN3O	239.7

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325	**benzenesulphonamide**	5-Amino methyl benzenesulphonamide hydrochloride	O=S(C1=CC=CC(CN)=C1)(N)=O.[H]Cl	IMPURITY	DCTI-C-2431	3-(aminomethyl)benzenesulfonamide hydrochloride	628298-58-8 (Free Base); 670280-13-4 (HCl Salt)	NA	C7H10N2O2S (Free base); C7H11ClN2O2S (Salt)	186.23 (Free base); 222.69 (Salt)
326	**Betahistine**	N-Nitroso Betahistine (Mixture of isomers)	CN(N=O)CCC1=NC=CC=C1	NDSRI	DCTI-C-3603	N-methyl-N-(2-(pyridin-2-yl)ethyl)nitrous amide	32635-81-7	NA	C8H11N3O	165.2
327		Betamethasone Tripropionate	F[C@]1([C@@]2(C)C=C3)[C@@H](OC(CC)=O)C[C@]4(C)[C@](C(COC(CC)=O)=O)(OC(CC)=O)[C@@H](C)C[C@H]4[C@@H]1CCC2=CC3=O	Impurity	DCTI-C-053	(8S,9R,10S,11S,13S,14S,16S,17R)-9-fluoro-10,13,16-trimethyl-3-oxo-17-(2-(propionyloxy)acetyl)-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-11,17-diyl dipropionate	1186048-33-8	Betamethasone Dipropionate EP Impurity G	C31H41FO8	560.66
328		Betamethasone DB XI	O=C(C=C1)C=C2[C@@]1(C)[C@]34[C@@H](O4)C[C@]5(C)[C@](C(CO)=O)(O)[C@@H](C)C[C@H]5[C@@H]3CC2	Impurity	DCTI-C-054	(4aS,4bS,5aS,6aS,7R,8S,9aS,9bS)-7-hydroxy-7-(2-hydroxyacetyl)-4a,6a,8-trimethyl-5a,6,6a,7,8,9,9a,9b,10,11-decahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-2(4aH)-one	981-34-0	NA	C22H28O5	372.46
329		Betamethasone 17 propionate 21 mesylate Imp-I	O[C@H]([C@]([C@@]1(C)C=C2)3F)C[C@]4(C)[C@](C(COS(=O)(C)=O)=O)(OC(CC)=O)[C@@H](C)C[C@@]4([H])[C@]3([H])CCC1=CC2=O	Impurity	DCTI-C-283	(8S,9R,10S,11S,13S,14S,16S,17R)-9-fluoro-11-hydroxy-10,13,16-trimethyl-17-(2-((methylsulfonyl)oxy)acetyl)-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl propionate	15423-80-0	NA	C26H35FO8S	526.62
330		Betamethasone-DB11 Monopropionate	O=C(C=C1)C=C2[C@@]1(C)[C@]34[C@@H](O4)C[C@]5(C)[C@](C(CO)=O)(OC(CC)=O)[C@@H](C)C[C@H]5[C@@H]3CC2	Impurity	DCTI-C-055	(4aS,4bS,5aS,6aS,7R,8S,9aS,9bS)-7-(2-hydroxyacetyl)-4a,6a,8-trimethyl-2-oxo-2,4a,5a,6,6a,7,8,9,9a,9b,10,11-dodecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-7-yl propionate	79578-39-5	Betamethasone Dipropionate EP Impurity U	C25H32O6	428.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
331	**Betamethasone**	Betamethasone-DB11 Dipropionate	O=C(C=C1)C=C2[C@@]1(C)[C@]34[C@@H](O4)C[C@]5(C)[C@](C(COC(CC)=O)=O)(OC(CC)=O)[C@@H](C)C[C@H]5[C@@H]3CC2	Impurity	DCTI-C-056	2-oxo-2-((4aS,4bS,5aS,6aS,7R,8S,9aS,9bS)-4a,6a,8-trimethyl-2-oxo-7-(propionyloxy)-2,4a,5a,6,6a,7,8,9,9a,9b,10,11-dodecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-7-yl)ethyl propionate	66917-44-0	Betamethasone Impurity F	C28H36O7	484.59
332		Betamethasone Enol Aldehyde E-Isomer	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@H](C)/C4=C(O)/C([H])=O)=C1	Impurity	DCTI-C-3022	(E)-2-((8S,9R,10S,11S,13S,14S,16S)-9-fluoro-11-hydroxy-10,13,16-trimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)-2-hydroxyacetaldehyde	52647-07-01	NA	C22H27FO4	374.45
333		(17RS)-Betamethasone 20-hydroxy 21-acid impurity (Mixture of isomers)	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@H](C)C4C(C(O)=O)O)=C1	Impurity	DCTI-C-3050	2-((8S,9R,10S,11S,13S,14S,16S)-9-fluoro-11-hydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-hydroxyacetic acid	1155886-49-9	NA	C22H29FO5	392.47
334		2,4,6-Trifluoro Benzyl Amine Dimer-1	FC1=CC(F)=C(CN)C(NCC2=C(F)C=C(F)C=C2F)=C1	Impurity	DCTI-C-437	2-(aminomethyl)-3,5-difluoro-N-(2,4,6-trifluorobenzyl)aniline	NA	NA	C14H11F5N2	302.25
335		Trifluoro Benzyl Amine Dimer-2	FC1=C(CNCC2=C(F)C=C(F)C=C2F)C(F)=CC(F)=C1	Impurity	DCTI-C-438	bis(2,4,6-trifluorobenzyl)amine	NA	NA	C14H9F6N	305.22
336		Betamethasone Enol Aldehyde Z-Isomer	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@H](C)/C4=C(C([H])=O)/O)=C1	Impurity	DCTI-C-3677	(Z)-2-((8S,9R,10S,11S,13S,14S,16S)-9-fluoro-11-hydroxy-10,13,16-trimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)-2-hydroxyacetaldehyde	52647-06-0	(Z)-Betamethasone-Δ17,20 21-Aldehyde	C22H27FO4	374.45
337		Betamethasone Acetate Related Compound D	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@@]2(O4)[C@]4([H])C[C@@]5(C)[C@@]3([H])C[C@H](C)[C@@]5(C(COC(C)=O)=O)O)=C1	Impurity	DCTI-C-3803	2-((4aS,4bS,5aS,6aS,7R,8S,9aS,9bS)-7-hydroxy-4a,6a,8-trimethyl-2-oxo-2,4a,5a,6,6a,7,8,9,9a,9b,10,11-dodecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-7-yl)-2-oxoethyl acetate	912-38-9	Betamethasone Acetate EP Impurity D	C24H30O6	414.5

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338	**Betaxolol**	N-Nitroso-Betaxolol	CC(N(N=O)CC(COC1=CC=C(C=C1)CCOCC2CC2)O)C	nDSRI	DCTI-C-3741	N-(3-(4-(2-(cyclopropylmethoxy)ethyl)phenoxy)-2-hydroxypropyl)-N-isopropylnitrous amide	NA	N-Nitroso-Betaxolol (Mixture of Isomers)	C18H28N2O4	336.43
339	**Bilastine**	1'-Hydroxy Bilastine	CCOCCN1C(C2CCN(CC(O)C3=CC=C(C(C)(C)C(O)=O)C=C3)CC2)=NC4=CC=CC=C41	impurity	DCTI-C-1971	2-(4-(2-(4-(1-(2-ethoxyethyl)-1H-benzo[d]imidazol-2-yl)piperidin-1-yl)-1-hydroxyethyl)phenyl)-2-methylpropanoic acid	1638785-23-5	Bilastine Impurity 3 ; Hydroxy Impurity.	C28H37N3O4	479.62
340		Bilastine Impurity 7	CCOCCN1C(C2CCNCC2)=NC3=CC=CC=C31.O=CC(F)(F)F	impurity	DCTI-C-2211	1-(2-ethoxyethyl)-2-(piperidin-4-yl)-1H-benzo[d]imidazole	NA	NA	C16H23N3O (Free base) C18H23F3N3O2 (TFA salt)	273.38 (Free base) 370.40 (TFA salt)
341		Bilastine Impurity 1	O=C(OC(C)(C)C)N(CC1)CCC1C2=NC3=CC=CC=C3N2	impurity	DCTI-C-1972	tert-butyl 4-(1H-benzo[d]imidazol-2-yl) piperidine-1-carboxylate	953071-73-3	NA	C17H23N3O2	301.39
342		Bilastine Impurity 2	O=C(OC(C)(C)C)N(CC1)CCC1C2=NC3=CC=CC=C3N2CCOCC	impurity	DCTI-C-1973	tert-butyl 4-(1-(2-ethoxyethyl)-1H-benzo[d]imidazol-2-yl)piperidine-1-carboxylate	1181267-36-6	NA	C21H31N3O3	373.5
343		Bilastine N-Oxide Impurity	CCOCCN1C(C2CCN(CC2)(CCC3=CC=C(C(C)(C)C(O)=O)C=C3)=O)=NC4=CC=CC=C41	metabolite	DCTI-C-1974	1-(4-(2-carboxypropan-2-yl)phenethyl)-4-(1-(2-ethoxyethyl)-1H-benzo[d]imidazol-2-yl)piperidine 1-oxide	2069238-47-5	N-Oxide Impurity; Bilastine N-Oxide	C28H37N3O4	479.62

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344		4-[2-[4-[1-[2-[4-(1-carboxy-1-methylethyl)phenyl]ethyl]-1H-benzimidazol-2-yl]-1-piperidinyl]ethyl]-a,a-dimethyl-Benzeneacetic acid(Bilastine Impurities)	O=C(O)C(C)(C)C1=CC=C(CCN2CCC(C3=NC4=CC=CC=C4N3CCC5=CC=C(C(C)(C(O)=O)C)C=C5)CC2)C=C1	Impurity	DCTI-C-2893	2-(4-(2-(4-(1-(4-(2-carboxypropan-2-yl)phenethyl)-1H-benzo[d]imidazol-2-yl)piperidin-1-yl)ethyl)phenyl)-2-methylpropanoic acid	2411093-91-7	Bilastine Impurity 20	C36H43N3O4	581.76
345	**BINAP**	BINAP PHOSPHINE OXIDE	O=P(C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=C4C(C=CC=C4)=C3C5=CC=CC6=CC=CC=C65	impurity	DCTI-C-1145	[1,1'-binaphthalen]-2-yldiphenylphosphine oxide	161053-36-7	NA	C32H23OP	454.51
346	**Binimetinib**	N-Desmethyl Binimetinib	FC1=C(NC2=C(F)C=C(Br)C=C2)C(C(NOCCO)=O)=CC3=C1N=CN3	metabolite	DCTI-C-1193	5-((4-bromo-2-fluorophenyl)amino)-4-fluoro-N-(2-hydroxyethoxy)-1H-benzo[d]imidazole-6-carboxamide	606143-89-9	NA	C16H13BrF2N4O3	427.21
347	**Bis Hydroxy Piperazine**	Bis Hydroxy Piperazine	OC(C=C1)=C(O)C=C1C(CN2)NCC2C3=CC=C(O)C(O)=C3	Impurity	DCTI-C-080	4,4'-(piperazine-2,5-diyl)bis(benzene-1,2-diol)	NA	NA	C16H18N2O4	302.33
348	**Bisoprolol**	N-Formyl Bisoprolol	CC(C)OCCOCC(C=C1)=CC=C1OCC(CN(C([H])=O)C(C)C)O	impurity	DCTI-C-1203	N-(2-hydroxy-3-(4-((2-isopropoxyethoxy)methyl)phenoxy)propyl)-N-isopropylformamide	1447715-45-8	Bisoprolol impurity 2	C19H31NO5	353.46
349	**Bis piperidine**	Ethyl 4-(piperi-1-yl) piperid-1-carbamate	O=C(OCC)N(CC1)CCC1N2CCCCC2	Impurity	DCTI-C-221	ethyl [1,4'-bipiperidine]-1'-carboxylate	802277-44-7	NA	C13H24N2O2	240.35
350	**Bipyridine/Biphenyl derivative**	Dimethyl 4,4'-diamino-6,6'-dibromo-3,3'-dimethyl-[1,1'-biphenyl]-2,2'-dicarboxylate(Bipyridine/Biphenyl derivative)	BrC1=C(C(C(Br)=CC(N)=C2C)=C2C(OC)=O)C(C(OC)=O)=C(C(N)=C1)C	Impurity	DCTI-C-2857	Dimethyl 4,4'-diamino-6,6'-dibromo-3,3'-dimethyl-[1,1'-biphenyl]-2,2'-dicarboxylate	NA	Biphenyl derivative, ER-894919-dimer	C18H18Br2N2O4	486.16

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351	Blonanserin	N-Nitroso desethyl Blonanserin	FC(C=C1)=CC=C1C2=CC(N(CC3)CCN3N=O)=NC4=C2CCCCCC4	NDSRI	DCTI-C-3531	4-(4-fluorophenyl)-2-(4-nitrosopiperazin-1-yl)-5,6,7,8,9,10-hexahydrocycloocta[b]pyridine	NA	NA	C21H25FN4O	386.46
352		Blonanserin C TFA	FC1=CC=C(C2=C(CCCCCC3)C3=NC(N4CCNCC4)=C2)C=C1.O=C(O)C(F)(F)F	Impurity	DCTI-C-3601	4-(4-fluorophenyl)-2-(piperazin-1-yl)-5,6,7,8,9,10-hexahydrocycloocta[b]pyridine 2,2,2-trifluoroacetate	NA	Blonanserin Impurity 4	C21H26FN3 (Free Base): C23H27F4N3O2 (TFA Salt)	339.46 (Free Base); 453.48 (TFA Salt)
353	Boldione	6-Oxo Boldione	C[C@@]12[C@]3([H])[C@](CC(C1=CC(C=C2)=O)=O)([H])[C@@]4([H])[C@](CC3)(C(CC4)=O)C	Impurity	DCTI-C-3413	(8R,9S,10R,13S,14S)-10,13-dimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3H-cyclopenta[a]phenanthrene-3,6,17-trione	72648-46-5	Androsta-1,4-diene-3,6,17-trione	C19H22O3	298.38
354	Bortezomib	Bortezomib Dimer	O=C(C1=CN=CC=N1)N[C@@H](CC2=CC=CC=C2)C(N[C@@H](CC3=CC=CC=C3)C(N[C@@H](B(O)O)CC(C)C)=O)=O	Impurity	DCTI-C-728	((R)-3-methyl-1-((S)-3-phenyl-2-((S)-3-phenyl-2-(pyrazine-2-carboxamido)propanamido)propanamido)butyl)boronic acid	1194235-41-0	Bortezomib Impurity 9; Bortezomib USP Impurity O; Leonloside D; Bortezomib-L-phenylalanyl analogue	C28H34BN5O5	531.42
355		Bortezomib acid impurity	O=C(N[C@H](C(O)=O)CC1=CC=CC=C1)C2=NC=CN=C2	IMPURITY	DCTI-C-2602	(pyrazine-2-carbonyl)-L-phenylalanine	114457-94-2	(S)-3-Phenyl-2-[[(pyrazin-2-yl)carbonyl]amino]propanoic acid: Bortezomib Impurity B: Bortezomib impurity 36	C14H13N3O3	271.27
356		Bortezomib amide impurity	O=C(N[C@H](C(N)=O)CC1=CC=CC=C1)C2=NC=CN=C2	IMPURITY	DCTI-C-2636	(S)-N-(1-amino-1-oxo-3-phenylpropan-2-yl)pyrazine-2-carboxamide	289472-80-6	Bortezomib impurity 3;Bortezomib impurity A;Bortezomib impurity 38.	C14H14N4O2	270.29
357		Bortezomib enantiomer	O=C(N[C@@H](C(N[C@H](CC(C)C)B(O)O)=O)CC1=CC=CC=C1)C2=NC=CN=C2	IMPURITY	DCTI-C-2773	((S)-3-methyl-1-((R)-3-phenyl-2-(pyrazine-2-carboxamido)propanamido)butyl)boronic acid	1132709-16-0	NA	C19H25BN4O4	384.24

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
358		Bosentan Impurity (Diacid)	COC1=C(OC(C(O)=O)C(O)=O)C=CC=C1	Impurity	DCTI-C-161	2-(2-methoxyphenoxy)malonic acid	NA	NA	C10H10O6	226.18
359		N,N′-[5-(2-Methoxyphenoxy)[2,2′-bipyrimidine]-4,6-diyl]bis[4(1,1dimethylethyl) benzenesulfonamide]	COC1=CC=CC=C1OC2=C(NS(C3=CC=C(C(C)(C)C)C=C3)(=O)=O)N=C(C4=NC=CC=N4)N=C2NS(C5=CC=C(C(C)(C)C)C=C5)(=O)=O	impurity	DCTI-C-1975	N,N'-(5-(2-methoxyphenoxy)-[2,2'-bipyrimidine]-4,6-diyl)bis(4-(tert-butyl)benzenesulfonamide)	1218951-81-5	Bosentan Impurity-1; Bosentan Impurity; Benzenesulfonamide, N,N′-[5-(2-methoxyphenoxy)[2,2′-bipyrimidine]-4,6-diyl]bis[4-(1,1-dimethylethyl)	C35H38N6O6S2	702.85
360		Bosentan Impurity-3	O=S(C1=CC=C(C(C)(C)CO)C=C1)(NC2=NC(C3=NC=CC=N3)=NC(OCCO)=C2OC4=CC=CC=C4O)=O	metabolite	DCTI-C-1957	4-(1-hydroxy-2-methylpropan-2-yl)-N-(6-(2-hydroxyethoxy)-5-(2-hydroxyphenoxy)-[2,2'-bipyrimidin]-4-yl)benzenesulfonamide	253688-62-9	Benzenesulfonamide, 4-(2-hydroxy-1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-hydroxyphenoxy)[2,2′-bipyrimidin]-4-yl]- (9Cl, ACl)Hydroxybosentan; Ro 64-1056; Bosentan Hydroxymethyl O-Desmethyl Impurity; Hydroxy Desmethyl Bosentan.	C26H27N5O7S	553.59
361		Bosentan Impurity-1	O=S(NC1=C(OC2=CC=CC=C2OC)C(OC)=NC(C3=NC=CC=N3)=N1)(C4=CC=C(C(C)(C)C)C=C4)=O	impurity	DCTI-C-1883	4-(tert-butyl)-N-(6-methoxy-5-(2-methoxyphenoxy)-[2,2'-bipyrimidin]-4-yl)benzenesulfonamide	157415-46-8	NA	C26H27N5O5S	521.59

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
362	Bosentan	Bosentan Impurity-2	O=S(C1=CC=C(C(C)(C)CO)C=C1)(NC2=NC(C3=NC=CC=N3)=NC(OCCO)=C2OC4=CC=CC=C4OC)=O	metabolite	DCTI-C-1953	4-(2-Hydroxy-1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)[2,2′-bipyrimidin]-4-yl]benzenesulfonamide	253688-60-7	Hydroxybosentan; Ro 48-5033; Ro 48-8634; 4-(2-Hydroxy-1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)[2,2′-bipyrimidin]-4-yl]benzenesulfonamide (ACI)	C27H29N5O7S	567.62
363		Bosentan Impurity-4	O=S(NC1=C(OC2=CC=CC=C2O)C(OCCO)=NC(C3=NC=CC=N3)=N1)(C4=CC=C(C(C)(C)C)C=C4)=O	metabolite	DCTI-C-1954	4-(tert-butyl)-N-(6-(2-hydroxyethoxy)-5-(2-hydroxyphenoxy)-[2,2'-bipyrimidin]-4-yl)benzenesulfonamide	253688-61-8	Ro 47-8634	C26H27N5O6S	537.59
364		Bosentan USP Related Compound-B	O=S(NC(NC(C1=NC=CC=N1)=N2)=C(OC3=CC=CC=C3OC)C2=O)(C4=CC=C(C(C)(C)C)C=C4)=O	impurity	DCTI-C-1955	4-(tert-butyl)-N-(5-(2-methoxyphenoxy)-6-oxo-3,6-dihydro-[2,2'-bipyrimidin]-4-yl)benzenesulfonamide	174227-14-6	NA	C25H25N5O5S	507.57
365		Bosentan USP Related Compound-E	NS(C1=CC=C(C(C)(C)C)C=C1)(=O)=O	impurity	DCTI-C-1956	4-(tert-butyl)benzenesulfonamide	6292-59-7	NSC 9911; 4-tert-Butylbenzenesulfonamide; p-(tert-Butyl)phenylsulfonamide; p-tert-Butylbenzenesulfonamide	C10H15NO2S	213.30
366		GTA Degradation Impurity-2	OS(C1=CC=C(C(C)(C)C)C=C1)(=O)=O	impurity	DCTI-C-1852	4-(tert-butyl)benzenesulfonic acid.	NA	4-(1,1-Dimethylethyl)benzenesulfonic acid (ACI); p-tert-Butylbenzenesulfonic acid; Benzenesulfonic acid, p-tert-butyl- (7CI, 8CI)	C10H14O3S	214.28

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367		Bosentan Impurity (Mono Acid)	COC1=C(OC(C(O)=O)C(OC)=O)C=CC=C1	Impurity	DCTI-C-162	3-methoxy-2-(2-methoxyphenoxy)-3-oxopropanoic acid	NA	NA	C11H12O6	240.21
368		Bosentan Dimer Impurity	O=S(NC1=C(OC2=CC=CC=C2OC)C(OCCOC3=NC(C4=NC=CC=N4)=NC(NS(C5=CC=C(C(C)(C)C)C=C5)(=O)=O)=C3OC6=CC=CC=C6OC)=NC(C7=NC=CC=N7)=N1)(C8=CC=C(C(C)(C)C)C=C8)=O	impurity	DCTI-C-1825	N,N'-((ethane-1,2-diylbis(oxy))bis(5-(2-methoxyphenoxy)-[2,2'-bipyrimidine]-6,4-diyl))bis(4-(tert-butyl)benzenesulfonamide)	NA	Bosentan Related Compound C; Bosentan USP Related Compound C	C52H52N10O10S2	1041.17
369		GTA Degradation Impurity-1	OC1=C(OC2=CC=CC=C2OC)C(N)=NC(C3=NC=CC=N3)=N1	impurity	DCTI-C-1901	6-amino-5-(2-methoxyphenoxy)-[2,2'-bipyrimidin]-4-ol	NA	NA	C15H13N5O3	311.3
370		GTA Degradation Impurity-3	NC1=C(OC2=CC=CC=C2OC)C(OCCO)=NC(C3=NC=CC=N3)=N1	impurity	DCTI-C-1902	2-((6-amino-5-(2-methoxyphenoxy)-[2,2'-bipyrimidin]-4-yl)oxy)ethan-1-ol	NA	2-[[6-Amino-5-(2-methoxyphenoxy)[2,2′-bipyrimidin]-4-yl]oxy]ethanol (ACI)	C17H17N5O4	355.35
371		2-(tert-butyl)benzenesulfonamide	CC(C)(C)C1=C(S(N)(=O)=O)C=CC=C1	Impurity	DCTI-C-163	2-(tert-butyl)benzenesulfonamide	193013-72-8	NA	C10H15NO2S	213.3
372		Bosentan Related Compound-D	ClC1=NC(C2=NC=CC=N2)=NC(Cl)=C1OC3=CC=CC=C3OC	Impurity	DCTI-C-227	4,6-dichloro-5-(2-methoxyphenoxy)-2,2'-bipyrimidine	150728-13-5	NA	C15H10Cl2N4O2	349.17

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373		Bosentan USP Related Compound-A	ClC1=NC(C2=NC=CC=N2)=NC(NS(=O)(C3=CC=C(C(C)(C)C)C=C3)=O)=C1OC4=CC=CC=C4OC	Impurity	DCTI-C-228	4-(tert-butyl)-N-(6-chloro-5-(2-methoxyphenoxy)-[2,2'-bipyrimidin]-4-yl)benzenesulfonamide	150727-06-3	NA	C25H24ClN5O4S	526.01
374		Bosentan Impurity F	O=S(NC1=C(OC2=CC=CC=C2OC)C(OCC)=NC(C3=NC=CC=N3)=N1)(C4=CC=C(C(C)(C)C)C=C4)=O	Impurity	DCTI-C-3298	4-(tert-butyl)-N-(6-ethoxy-5-(2-methoxyphenoxy)-[2,2'-bipyrimidin]-4-yl)benzenesulfonamide	NA	Bosentan Impurity 6	C27H29N5O5S	535.62
375		Bosutinib Impurity-I	N#CCC(NC1=CC(OC)=C(C=C1Cl)Cl)=O	impurity	DCTI-C-990	2-cyano-N-(2,4-dichloro-5-methoxyphenyl)acetamide	846023-24-3	NA	C10H8Cl2N2O2	259.09
376		Bosutinib Impurity-II	O=C(NC1=CC(OC)=C(Cl)C=C1Cl)/C(C#N)=C/NC2=CC=C(OC)C(OCCCN3CCN(C)CC3)=C2	impurity	DCTI-C-988	(E/Z)-2-cyano-N-(2,4-dichloro-5-methoxyphenyl)-3-((4-methoxy-3-(3-(4-methylpiperazin-1-yl)propoxy)phenyl)amino)acrylamide	846023-56-1	NA	C26H31Cl2N5O4	548.46
377		Oxydechlorinated Bosutinib	N#CC1=C(NC2=CC(OC)=C(O)C=C2Cl)C3=CC(OC)=C(OCCCN4CCN(C)CC4)C=C3N=C1	metabolite	DCTI-C-1783	4-((2-chloro-4-hydroxy-5-methoxyphenyl)amino)-6-methoxy-7-(3-(4-methylpiperazin-1-yl)propoxy)quinoline-3-carbonitrile	NA	Bosutinib Oxydechlorinated Impurity	C26H30ClN5O4	512.01
378	Bosutinib	Bosutinib Impurity-III	N#CC1=C(NC2=CC(OC)=C(Cl)C=C2Cl)C3=CC(OC)=C(OCCC)C=C3N=C1	impurity	DCTI-C-989	4-((2,4-dichloro-5-methoxyphenyl)amino)-6-methoxy-7-propoxyquinoline-3-carbonitrile	2095306-25-3	Bosutinib des NMP impurity	C21H19Cl2N3O3	432.3

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379	Bosutinib	Bosutinib Impurity-V	ClC1=CC(Cl)=C(C=C1NC(C(C2=C3)=CC(OC)=C3OCCCN4CCN(CCCOC5=C(OC)C=C6C(NC7=CC(OC)=C(Cl)C=C7Cl)=C(C#N)C=NC6=C5)CC4)=C(C=N2)C#N)OC	impurity	DCTI-C-991	7,7'-((piperazine-1,4-diylbis(propane-3,1-diyl))bis(oxy))bis(4-((2,4-dichloro-5-methoxyphenyl)amino)-6-methoxyquinoline-3-carbonitrile)	2095306-26-4	Bosutinib Piperazine dimer impurity	C46H44Cl4N8O6	946.71
380		Bosutinib Impurity-VI	N#CC1=C(NC2=CC(OC)=C(Cl)C=C2Cl)C3=CC(OC)=C(OCCCN4CCNCC4)C=C3N=C1.Cl	metabolite	DCTI-C-992	4-((2,4-dichloro-5-methoxyphenyl)amino)-6-methoxy-7-(3-(piperazin-1-yl)propoxy)quinoline-3-carbonitrile hydrochloride	380843-81-2	Bosutinib N-Des methyl impurity	C25H27Cl2N5O3 (Free base) C25H28Cl3N5O3 (Salt)	516.42 (Free base) 552.88 (Salt)
381		Bosutinib Impurity-IV	N#CC1=C(NC2=CC(OC)=C(Cl)C=C2Cl)C3=CC(OC)=C(OCCCOC(C=C4C(C(NC5=CC(OC)=C(C=C5Cl)Cl)=C(C=N4)C#N)=C6)=C6OC)C=C3N=C1	impurity	DCTI-C-993	7,7'-(propane-1,3-diylbis(oxy))bis(4-((2,4-dichloro-5-methoxyphenyl)amino)-6-methoxyquinoline-3-carbonitrile)	2095306-27-5	Bosutinib Propoxy dimer impurity	C39H30Cl4N6O6	820.51
382		Bosutinib Nitroso Impurity	N#CC1=C(NC2=CC(OC)=C(Cl)C=C2Cl)C3=CC(OC)=C(OCCCN4CCN(N=O)CC4)C=C3N=C1	NDSRI	DCTI-C-3740	4-((2,4-dichloro-5-methoxyphenyl)amino)-6-methoxy-7-(3-(4-nitrosopiperazin-1-yl)propoxy)quinoline-3-carbonitrile	NA	N-nitroso desmethyl Bosutinib; N-Desmethyl n-nitroso Bosutinib	C25H26Cl2N6O4	545.42
383	**Branebrutinib**	Branebrutinib Enantiomer	O=C(N)C(C1=C2C(C)=C(C)N1)=CC(F)=C2N(CCC3)C[C@@H]3NC(C#CC)=O	Impurity	DCTI-C-2525	(R)-4-(3-(but-2-ynamido)piperidin-1-yl)-5-fluoro-2,3-dimethyl-1H-indole-7-carboxamide	1912445-70-5	BMS-986195 R-isomer	C20H23FN4O2	370.43
384		Branebrutinib Acid	O=C(O)C(C1=C2C(C)=C(C)N1)=CC(F)=C2N(CCC3)C[C@H]3NC(C#CC)=O	IMPURITY	DCTI-C-3524	(S)-4-(3-(but-2-ynamido)piperidin-1-yl)-5-fluoro-2,3-dimethyl-1H-indole-7-carboxylic acid	NA	NA	C20H22FN3O3	371.41

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385		Brexpiprazole Impurity 3 Hydrochloride	C1(N2CCNCC2)=C(SC=C3)C3=CC=C1.Cl	Impurity	DCTI-C-368	1-(benzo[b]thiophen-7-yl)piperazine hydrochloride	105684-41-1	BRP-3	C12H15ClN2S	254.78
386		Brexpiprazole impurity-7	O=C(N1)C=CC(C1=C2)=CC=C2OCCCCN(CC3)CCN3C4=C5C(SC(C6=CC=CC7=C6C=CS7)=C5)=CC=C4	impurity	DCTI-C-1692	7-(4-(4-([2,4'-bibenzo[b]thiophen]-4-yl)piperazin-1-yl)butoxy)quinolin-2(1H)-one	NA	NA	C33H31N3O2S2	565.75
387		Brexpiprazole 5-1H-Quinolin-2-one	O=C(C=C1)NC2=C1C(OCCCCN3CCN(C4=C5C=CSC5=CC=C4)CC3)=CC=C2	impurity	DCTI-C-1693	5-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)quinolin-2(1H)-one	NA	NA	C25H27N3O2S	433.57
388		5-hydroxyquinolin-2(1H)-one	OC1=C(C=CC(N2)=O)C2=CC=C1	impurity	DCTI-C-1694	5-hydroxyquinolin-2(1H)-one	31570-97-5	5-Hydroxy-2(1H)-quinolone; 5-Hydroxycarbostyril; NSC 134652	C9H7NO2	161.16
389		N-Dimer of Brexipiprazole	O=C1N(C2=C(C=C1)C=CC(OCCCCN3CCN(C4=CC=CC5=C4C=CS5)CC3)=C2)CCCCN(CC6)CCN6C7=C(C=CS8)C8=CC=C7	impurity	DCTI-C-1695	7-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)-1-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butyl)quinolin-2(1H)-one	2137823-20-0	NA	C41H47N5O2S2	705.98
390		Brexpiprazole 3,4-dihydro Impurity.	O=C1CCC2=C(C=C(OCCCCN3CCN(C4=C(C=CS5)C5=CC=C4)CC3)C=C2)N1	Impurity	DCTI-C-369	7-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one	913612-07-4	BRP-/3,4-Dihydro Impurity	C25H29N3O2S	435.59

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391	Brexpiprazole	1-(benzofuran-4-yl)piperazine hydrochloride	N1(C2=C3C(OC=C3)=CC=C2)CCNCC1.Cl	impurity	DCTI-C-1391	1-(benzofuran-4-yl)piperazine hydrochloride	105684-85-3	Brexpiprazole Impurity 5 HCl	C12H15ClN2O (HCl Salt) C12H14N2O (Free base)	238.72 (Salt) 202.26 (Free base)
392		6-chloro-7-((5-(4-(3-chlorobenzo[b]thiophen-4-yl)piperazin-1-yl)pentyl)oxy)quinolin-2(1H)-one	O=C1NC2=C(C=C(Cl)C(OCCCCCN3CCN(C4=C(C(Cl)=CS5)C5=CC=C4)CC3)=C2)C=C1	impurity	DCTI-C-1392	6-chloro-7-((5-(4-(3-chlorobenzo[b]thiophen-4-yl)piperazin-1-yl)pentyl)oxy)quinolin-2(1H)-one	NA	NA	C26H27Cl2N3O2S	516.48
393		7-((5-(4-(benzobthiophen-4-yl)piperazin-1-yl)pentyl)oxy)-6-chloroquinolin-2(1H)-one	O=C1NC2=C(C=C(Cl)C(OCCCCCN3CCN(C4=C(C=CS5)C5=CC=C4)CC3)=C2)C=C1	impurity	DCTI-C-1393	7-((5-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)pentyl)oxy)-6-chloroquinolin-2(1H)-one	NA	NA	C26H28ClN3O2S	482.04
394		7-5-(4-Benzobthien-4-yl-1-piperazinyl)pentyloxy-2(1H)-quinolinone	O=C1NC2=C(C=CC(OCCCCCN3CCN(C4=C(C=CS5)C5=CC=C4)CC3)=C2)C=C1	impurity	DCTI-C-1394	7-((5-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)pentyl)oxy)quinolin-2(1H)-one	2091105-80-3	NA	C26H29N3O2S	447.6
395		8-hydroxy-1,3,4,5-tetrahydro-2H-benzo[b]azepin-2-one	O=C1NC2=CC(O)=CC=C2CCC1	impurity	DCTI-C-1395	8-hydroxy-1,3,4,5-tetrahydro-2H-benzo[b]azepin-2-one	22246-84-0	NA	C10H11NO2	177.2
396		2,7-bis(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)quinoline/Brexpiprazole Impurity	C1(OCCCCN(CC2)CCN2C3=C4C(SC=C4)=CC=C3)=CC=C5C(N=C(OCCCCN(CC6)CCN6C7=C8C(SC=C8)=CC=C7)C=C5)=C1	Impurity	DCTI-C-974	2,7-bis(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)quinoline	2138169-93-2	Brexpiprazole Impurity 26	C41H47N5O2S2	705.98

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397		7-(4-((7-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)quinolin-2-yl)oxy)butoxy)quinolin-2(1H)-one / Brexpiprazole O-dimer impurity	O=C1NC(C=C(OCCCCOC2=NC(C=C(OCCCCN(CC3)CCN3C4=C5C(SC=C5)=CC=C4)C=C6)=C6C=C2)C=C7)=C7C=C1	Impurity	DCTI-C-809	7-(4-((7-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)quinolin-2-yl)oxy)butoxy)quinolin-2(1H)-one	2116542-21-1	Brexpiprazole O-dimer impurity	C38H40N4O4S	648.82
398		7-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)-1-(4-((2-oxo-1,2-dihydroquinolin-7-yl)oxy)butyl)quinolin-2(1H)-one / Brexpiprazole Impurity	O=C1C=CC2=C(C=C(OCCCCN3C(C=CC4=C3C=C(OCCCCN(CC5)CCN5C6=C7C(SC=C7)=CC=C6)C=C4)=O)C=C2)N1.O=CC(F)(F)F	Impurity	DCTI-C-810	7-(4-(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)-1-(4-((2-oxo-1,2-dihydro quinolin-7-yl)oxy)butyl)quinolin-2(1H)-one Trifluoro acetic acid.	NA	Brexpiprazole N-dimer impurity / Brexpiprazole Impurity-2	C38H40N4O4S (Free Base) C40H41F3N4O6S (TFA Salt)	648.82 (Free Base) 762.85 (TFA Salt)
399		4-fluorobenzo[b]thiophene	FC1=C(C=CS2)C2=CC=C1	impurity	DCTI-C-1524	4-fluorobenzo[b]thiophene	310466-38-7	NA	C8H5FS	152.2
400		1-([2,4'-bibenzo[b]thiophen]-4-yl)piperazine hydrochloride	C1(N2CCNCC2)=C(C=C(C3=CC=CC4=C3C=CS4)S5)C5=CC=C1.Cl	Impurity	DCTI-C-3293	1-([2,4'-bibenzo[b]thiophen]-4-yl)piperazine hydrochloride	NA	Brexpiprazole Impurity 7 (Free Base)	Free Base:C20H18N2S2; HCl Salt: C20H19ClN2S2	Free Base:350.50; HCl Salt: 386.96
401	**Brexpiprazole**	1,4-Bis(4-(benzothiophen-4-yl)piperazin-1-yl)butane	N1(CCCCN2CCN(C3=C(C=CS4)C4=CC=C3)CC2)CCN(C5=C(C=CS6)C6=CC=C5)CC1	IMPURITY	DCTI-C-3522	1,4-bis(4-(benzo[b]thiophen-4-yl)piperazin-1-yl)butane	2250242-22-7	Brexpiprazole impurity 11	C28H34N4S2	490.73
402		Brimonidine Impurity B	NC1=CC=C2C(N=CC=N2)=C1Br	impurity	DCTI-C-1425	5-bromoquinoxalin-6-amine	50358-63-9	NA	C8H6BrN3	224.06
403		Brimonidine Cyclic impurity	C12=C(N3C(N4)=NCC3)C4=CC=C1N=CC=N2	metabolite	DCTI-C-1976	9,10-dihydro-7H-imidazo[2',1':2,3]imidazo[4,5-f]quinoxaline	NA	BMT-Cyclized impurity	C11H9N5	211.23

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404	Brimonidine	Brimonidine Impurity A	C1(NC2=NCCN2)=CC=C3C(N=CC=N3)=C1	Impurity	DCTI-C-1685	N-(4,5-dihydro-1H-imidazol-2-yl)quinoxalin-6-amine	91147-43-2	NA	C11H11N5	213.24
405		5-Bromo-6-isothiocynatoquinoxaline	BrC1=C(N=CC=N2)C2=CC=C1N=C=S	impurity	DCTI-C-1813	5-bromo-6-isothiocyanatoquinoxaline	NA	NA	C9H4BrN3S	266.1
406		Brimonidine Carbamothioate Impurity	BrC1=C(N=CC=N2)C2=CC=C1NC(OCC)=S	impurity	DCTI-C-1814	O-ethyl (5-bromoquinoxalin-6-yl)carbamothioate	NA	NA	C11H10BrN3OS	312.2
407		O-Isopropyl(5-Bromoquinoxalin-6-yl)Carbamothioate.	BrC1=C(N=CC=N2)C2=CC=C1NC(OC(C)C)=S	impurity	DCTI-C-1815	O-isopropyl (5-bromoquinoxalin-6-yl)carbamothioate	NA	NA	C12H12BrN3OS	326.2
408		Brimonidine Impurity C	NC1=CC=C2C(N=CC=N2)=C1	impurity	DCTI-C-1426	quinoxalin-6-amine	6298-37-9	6-Aminoquinoxaline; 6-Quinoxalylamine; NSC 41810	C8H7N3	145.16
409		Brimonidine Impurity D	NC(NC1=CC=C2C(N=CC=N2)=C1Br)=S	impurity	DCTI-C-1427	1-(5-bromoquinoxalin-6-yl)thiourea	842138-74-3	NA	C9H7BrN4S	283.15
410		Brimonidine Impurity E	BrC1=C(N=CC=N2)C2=CC=C1NC(N)=N.O=CC(F)(F)F	impurity	DCTI-C-1428	1-(5-bromoquinoxalin-6-yl)guanidine 2,2,2-trifluoroacetate	NA	NA	C9H8BrN5 (Free Base) C11H8BrF3N5O2 (TFA salt)	266.1 (Free Base) 379.12 (TFA salt)
411		Brimonidine Impurity H	ClC1=C(N=CC=N2)C2=CC=C1NC3=NCCN3	impurity	DCTI-C-1429	5-chloro-N-(4,5-dihydro-1H-imidazol-2-yl)quinoxalin-6-amine	91147-46-5	UK 14819	C11H10ClN5	247.69

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
412		Brimonidine Unknown Impurity II	BrC1=C2C(N=CC=N2)=CC=C1/N=C3NCCN\3C(CC(O)=O)C(O)=O	impurity	DCTI-C-2416	2-(2-((5-bromoquinoxalin-6-yl)imino)imidazolidin-1-yl)succinic acid	NA	Brimonidine maleate adduct	C15H14BrN5O4	408.21
413		Brimonidine Unknown Impurity I	BrC1=C(N2C3=NCCN3C(C(O)=O)CC2=O)C=CC4=NC=CN=C41	Impurity	DCTI-C-2415	8-(5-bromoquinoxalin-6-yl)-7-oxo-2,3,5,6,7,8-hexahydroimidazo[1,2-a]pyrimidine-5-carboxylicacid	NA	NA	C15H12BrN5O3	390.2
414		Brimonidine Impurity 3	BrC1=C(N2C3=NCCN3C(CC(O)=O)C2=O)C=CC4=NC=CN=C41	Impurity	DCTI-C-3117	2-(1-(5-bromoquinoxalin-6-yl)-2-oxo-2,3,5,6-tetrahydro-1H-imidazo[1,2-a]imidazol-3-yl)acetic acid	NA	NA	C15H12BrN5O3	390.2
415		Brimonidine EP Impurity G (TFA Salt)	FC(F)(F)C(O)=O.O=C(NCCN)NC1=CC=C2N=CC=NC2=C1Br	IMPURITY	DCTI-C-3505	1-(2-aminoethyl)-3-(5-bromoquinoxalin-6-yl)urea 2,2,2-trifluoroacetate	1391054-10-6 (TFA Salt) 1216379-05-3 (Free base)	N-(2-aminoethyl)-N′-(5-bromo-6-quinoxalinyl)urea 2,2,2-trifluoroacetate	C11H12BrN5O (Free Base) C13H13BrF3N5O3 (TFA Salt)	310.16 (Free Base) 424.18 (TFA Salt)
416		N2-Nitroso Brimonidine	BrC1=C(/N=C2NCCN\2N=O)C=CC3=NC=CN=C31	NDSRI	DCTI-C-3630	N-(5-bromoquinoxalin-6-yl)-1-nitrosoimidazolidin-2-imine	NA	NA	C11H9BrN6O	321.14
417		Brimonidine EP Impurity G	O=C(NCCN)NC1=CC=C2N=CC=NC2=C1Br	Impurity	DCTI-C-3734	1-(2-aminoethyl)-3-(5-bromoquinoxalin-6-yl)urea	1216379-05-3	N-(2-aminoethyl)-N′-(5-bromo-6-quinoxalinyl)urea	C11H12BrN5O(Free base)	310.16(Fre base)
418		(S)-6-chloro-4-hydroxy-3,4-dihydro-2H-thieno[3,2-e] [1,2] thiazine 1,1-dioxide(Brinzolamide)	O=S1(C2=C(C=C(S2)Cl)[C@@H](CN1)O)=O	IMPURITY	DCTI-C-2743	(S)-6-chloro-4-hydroxy-3,4-dihydro-2H-thieno[3,2-e] [1,2] thiazine 1,1-dioxide	160982-16-1	BRL-2 Impurity-2; (4S)-6-chloro-1,1-dioxo-3,4-dihydro-2H-thieno[3,2-e] thiazin-4-ol	C6H6ClNO3S2	239.69

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
419	Brinzolamide	(4S)-6-chloro-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2] thiazine-4-ol- 1,1 dioxide (Brinzolamide)	O=S1(C2=C(C=C(S2)Cl)[C@@H](CN1CCCOC)O)=O	IMPURITY	DCTI-C-2752	(S)-6-chloro-4-hydroxy-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine 1,1-dioxide	160982-13-8	BRL-2 Impurity-1; (4S)-6-Chloro-3,4-dihydro-2-(3-methoxypropyl)-2H-thieno[3,2-e]-1,2-thiazin-4-ol 1,1-dioxide	C10H14ClNO4S2	311.8
420		(4R)-4-Hydroxy-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2] thiazine-6-sulfonamide 1,1 dioxide	O=S1(C2=C([C@H](CN1CCCOC)O)C=C(S2)S(N)(=O)=O)=O	IMPURITY	DCTI-C-2757	(R)-4-hydroxy-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide	165117-54-4	BRL-2 Impurity-3	C10H16N2O6S3	356.43
421		(S)-Brinzolamide	O=S(C(S1)=CC2=C1S(N(CCCOC)C[C@H]2NCC)(=O)=O)(N)=O	Impurity	DCTI-C-3014	(S)-4-(ethylamino)-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide	154127-19-2	(S(-)-4-ethylamino-3,4-dihydro-2-(3-methoxypropyl)-4H-thieno[3,2-e][1,2]thiazine-6-sulphonamide 1,1-dioxide)	C12H21N3O5S3	383.5
422		O-Desmethyl Brinzolamide	O=S(C1=CC([C@H](CN(S2(=O)=O)CCCO)NCC)=C2S1)(N)=O	Impurity	DCTI-C-3046	(R)-4-(ethylamino)-2-(3-hydroxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide	186377-56-0	Desmethyl impurity	C11H19N3O5S3	369.47
423		N-Desethyl Brinzolamide	O=S(C1=CC([C@H](CN(S2(=O)=O)CCCOC)N)=C2S1)(N)=O.OC(C(O)=O)=O	Impurity	DCTI-C-3054	(R)-4-amino-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide oxalate	2775292-24-3	NA	C10H17N3O5S3 (free base)C12H19N3O9S3 (oxalate salt)	355.44 (free base)445.48 (oxalate salt)
424		Brinzolamide n-Ethanol impurity	O=S(C1=CC([C@H](CN(S2(=O)=O)CCCOC)N(CCO)CC)=C2S1)(N)=O	Impurity	DCTI-C-3081	(R)-4-(ethyl(2-hydroxyethyl)amino)-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide	NA	n-Ethanol impurity	C14H25N3O6S3	427.55
425		Brinzolamide Nitroso impurity	O=S(C1=CC([C@H](CN(S2(=O)=O)CCCOC)N(N=O)CC)=C2S1)(N)=O	NDSRI	DCTI-C-3152	(R)-4-(ethyl(nitroso)amino)-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide; Brinzolamide Nitroso impurity (Mixture of diastereomers)	NA	NA	C12H20N4O6S3	412.49

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426		Brinzolamide Tosyl Impurity	O=S(C1=CC([C@H](CN(S2(=O)=O)CCCOC)N(S(C3=CC=C(C)C=C3)(=O)=O)CC)=C2S1)(N)=O	Impurity	DCTI-C-3340	(R)-4-((N-ethyl-4-methylphenyl)sulfonamido)-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide	NA	NA	C19H27N3O7S4	537.68
427		Methyl (S)-N-((4-hydroxy-2-(3-methoxypropyl)-1,1-dioxido-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazin-6-yl)sulfonyl)acetimidate	O=S1(C2=C([C@@H](CN1CCCOC)O)C=C(S2)S(/N=C(C)/OC)(=O)=O)=O	Impurity	DCTI-C-2493	methyl (S)-N-((4-hydroxy-2-(3-methoxypropyl)-1,1-dioxido-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazin-6-yl)sulfonyl)acetimidate	221910-88-9	BRL-2 methoxy imidate; (S)-Methyl N-(4-hydroxy-2-(3-methoxypropyl)-1,1-dioxido-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazin-6-yl)sulfonylacetimidate	C13H20N2O7S3	412.49
428		Methyl (S)-N-((2-(3-methoxypropyl)-1,1-dioxido-4-(tosyloxy)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazin-6-yl)sulfonyl)acetimidate	O=S1(C2=C([C@@H](CN1CCCOC)OS(=O)(C3=CC=C(C)C=C3)=O)C=C(S2)S(/N=C(C)/OC)(=O)=O)=O	Impurity	DCTI-C-2494	Methyl (S)-N-((2-(3-methoxypropyl)-1,1-dioxido-4-(tosyloxy)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazin-6-yl)sulfonyl)acetimidate	1395437-42-9	BRL-2 tosylate	C20H26N2O9S4	566.67
429		Brivaracetam (alfa R, 4R)-Isomer (DS-2)	O=C1C[C@@H](CCC)CN1[C@H](CC)C(N)=O	Impurity	DCTI-C-445	(R)-2-((R)-2-oxo-4-propylpyrrolidin-1-yl)butanamide	357337-00-9	Brivaracetam (2R, 4R)-Diastereomer-2	C11H20N2O2	212.29
430		Isopropyl 2-(2-oxo-4-propylpyrrolidin-1-yl)butanoate	O=C1CC(CCC)CN1C(C(OC(C)C)=O)CC	impurity	DCTI-C-1853	Isopropyl 2-(2-oxo-4-propylpyrrolidin-1-yl)butanoate	NA	NA	C14H25NO3	255.36
431		Brivaracetam acid (2R, 4R)-Isomer (DS-2)	O=C([C@H](N1C(C[C@@H](CCC)C1)=O)CC)O	impurity	DCTI-C-2212	(R)-2-((R)-2-oxo-4-propylpyrrolidin-1-yl)butanoic acid	NA	Brivaracetam acid (2R, 4R) Daistereomer-2.	C11H19NO3	213.28

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432	Brivaracetam	Brivaracetam acid (2R, 4S)-Isomer (Enantiomer)	O=C([C@H](N1C(C[C@H](CCC)C1)=O)CC)O	impurity	DCTI-C-2213	(R)-2-((S)-2-oxo-4-propylpyrrolidin-1-yl)butanoic acid	NA	Brivaracetam acid (2R, 4S) Enantiomer.	C11H19NO3	213.28
433		Brivaracetam EP Impurity-D	O=C(O)[C@H](CC)N1C(C[C@@H](CCC)C1)=O	metabolite	DCTI-C-2214	(S)-2-((R)-2-oxo-4-propylpyrrolidin-1-yl)butanoic acid	NA	(2S,4R)-α-Ethyl-2-oxo-4-propyl-1-pyrrolidineacetic Acid; Brivaracetam acid (2S,4R)-Isomer.	C11H19NO3	213.28
434		Brivaracetam EP Impurity-E	O=C(O)[C@H](CC)N1C(C[C@H](CCC)C1)=O	impurity	DCTI-C-2215	(S)-2-((S)-2-oxo-4-propylpyrrolidin-1-yl)butanoic acid	NA	1-Pyrrolidineacetic acid; α-ethyl-2-oxo-4-propyl-,(αS,4S); Brivaracetam acid (2S,4S) Daistereomer-1.	C11H19NO3	213.28
435		Brivaracetam (Alfa R, 4S)-Isomer (Enantiomer)	O=C1C[C@H](CCC)CN1[C@H](CC)C(N)=O	Impurity	DCTI-C-446	(R)-2-((S)-2-oxo-4-propylpyrrolidin-1-yl)butanamide	357336-99-3	Brivaracetam (2R, 4S)-Enantiomer	C11H20N2O2	212.29
436		Brivaracetam (alfa S, 4S)-Isomer (DS-1)	O=C1C[C@H](CCC)CN1[C@@H](CC)C(N)=O	Impurity	DCTI-C-447	(S)-2-((S)-2-oxo-4-propylpyrrolidin-1-yl)butanamide	357336-19-7	Brivaracetam (2S, 4S)-Diastereomer-1	C11H20N2O2	212.29
437		Brivaracetam (Racemic mixture)	O=C1CC(CCC)CN1C(C(N)=O)CC	Impurity	DCTI-C-448	2-(2-oxo-4-propylpyrrolidin-1-yl)butanamide	357335-87-6	rac Brivaracetam	C11H20N2O2	212.29

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
438		Brivaracetam methyl ester (2R,4R)-Isomer (DS-2)	O=C([C@H](N1C(C[C@@H](CCC)C1)=O)CC)OC	IMPURITY	DCTI-C-2417	Methyl (R)-2-((R)-2-oxo-4-propylpyrrolidin-1-yl)butanoate	na	NA	C12H21NO3	227.3
439		Brivaracetam methyl ester (2R,4S)-Isomer (Enantiomer)	O=C([C@H](N1C(C[C@H](CCC)C1)=O)CC)OC	IMPURITY	DCTI-C-2418	Methyl(R)-2-((S)-2-oxo-4-propylpyrrolidin-1-yl)butanoate	NA	NA	C12H21NO3	227.3
440		Brivaracetam methyl ester (2S,4R) Isomer	O=C(OC)[C@H](CC)N1C(C[C@@H](CCC)C1)=O	IMPURITY	DCTI-C-2419	Methyl (S)-2-((R)-2-oxo-4-propylpyrrolidin-1-yl)butanoate	2052297-80-8	NA	C12H21NO3	227.3
441		Brivaracetam methyl ester (2S,4S)-Isomer (DS-1)	O=C(OC)[C@H](CC)N1C(C[C@H](CCC)C1)=O	IMPURITY	DCTI-C-2420	Methyl (S)-2-((S)-2-oxo-4-propylpyrrolidin-1-yl)butanoate	497250-54-1	NA	C12H21NO4	227.3
442		(R)-2-(2-(tert-butoxy)-2-oxoethyl)pentanoic acid	OC([C@@H](CC(OC(C)(C)C)=O)CCC)=O	IMPURITY	DCTI-C-2421	(R)-2-(2-(tert-butoxy)-2-oxoethyl)pentanoic acid	112106-16-8	NA	C11H20O4	216.28
443		4-(tert-butyl) 1-ethyl (R)-2-propylsuccinate	O=C([C@@H](CC(OC(C)(C)C)=O)CCC)OCC	IMPURITY	DCTI-C-2422	4-(tert-butyl) 1-ethyl (R)-2-propylsuccinate	na	na	C13H24O4	244.33
444		4-(tert-butyl) 1-ethyl 2-propylsuccinate	CCOC(C(CC(OC(C)(C)C)=O)CCC)=O	IMPURITY	DCTI-C-2423	4-(tert-butyl) 1-ethyl 2-propylsuccinate	1997309-39-3	NA	C13H24O5	244.33

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445		4-(tert-butyl) 1-methyl 2-propylsuccinate	COC(C(CC(OC(C)(C)C)=O)CCC)=O	IMPURITY	DCTI-C-2424	4-(tert-butyl) 1-methyl 2-propylsuccinate	1997309-40-6	na	C12H22O4	230.3
446	**Bortezomib**	(pyrazine-2-carbonyl)-L-phenylalanyl-L-phenylalanine	O=C(N[C@H](C(N[C@H](C(O)=O)CC1=CC=CC=C1)=O)CC2=CC=CC=C2)C3=NC=CN=C3	Impurity	DCTI-C-3064	(pyrazine-2-carbonyl)-L-phenylalanyl-L-phenylalanine	1194235-14-7	NA	C23H22N4O4	418.45
447	**Budesonide**	Budesonide Related Compound G	C[C@]12C[C@H](O)[C@@]3([H])[C@](CCC4=CC(CC[C@@]43C)=O)([H])[C@]1([H])C[C@@H](O5)[C@]2(OC5CCC)C(CO)=O	impurity	DCTI-C-1977	(6aR,6bS,7S,8aS,8bS,11aR,12aS,12bS)-7-hydroxy-8b-(2-hydroxyacetyl)-6a,8a-dimethyl-10-propyl-1,2,5,6,6a,6b,7,8,8a,8b,11a,12,12a,12b-tetradecahydro-4H-naphtho[2',1':4,5]indeno[1,2-d][1,3]dioxol-4-one	137174-25-5	(11β,16α)-16,17-[Butylidenebis(oxy)]-11,21-dihydroxypregn-4-ene-3,20-dione; Budesonide EP Impurity G; Budesonide iMpurit G; 1,2-Dihydro Budesonide(Mixture of Diastereomers).	C25H36O6	432.56
448		Budesonide 17-keto Impurity	CCCC(O[C@@H]1C[C@@]2([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)[C@@]3([H])[C@@H](O)C[C@]2(C)C1=O)=O)=O	IMPURITY	DCTI-C-2470	(8S,9S,10R,11S,13S,14S,16R)-11-hydroxy-10,13-dimethyl-3,17-dioxo-6,7,8,9,10, 11,12, 13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-16-yl butyrate	85234-64-6	(11β,16α)-11-Hydroxy-16-(1-oxobutoxy)androsta-1,4-diene-3,17-dione; Androstandionic Impurity 1	C23H30O5	386.49
449		Bromo Chloropropiophenone	ClC1=CC=CC(C(C(Br)C)=O)=C1	Impurity	DCTI-C-1459	2-bromo-1-(3-chlorophenyl)propan-1-one	34911-51-8	2-Bromo-1-(3-chlorophenyl)-1-propanone; α-Bromo-3-chloropropiophenone; 3'-Chloro-2-bromopropiophenone	C9H8BrClO	247.5
450		Chloropropiophenone	ClC1=CC=CC(C(CC)=O)=C1	Impurity	DCTI-C-1460	1-(3-chlorophenyl)propan-1-one	34841-35-5	3'-Chloropropiophenone; 3-Chlorophenyl Ethyl Ketone; m-Chloropropiophenone; Bupropion Des-t-Butylamino Impurity	C9H9ClO	168.6
451		1-(3-chlorophenyl)-2-hydroxypropan-1-one	ClC1=CC(C(C(O)C)=O)=CC=C1	Impurity	DCTI-C-1784	1-(3-chlorophenyl)-2-hydroxypropan-1-one	NA	Bupropion USP Related Compound C	C9H9ClO2	184.62

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452	Bupropion	2-(tert-Butylamino)-3′-bromopropiophenone hydrochloride	BrC1=CC(C(C(C)NC(C)(C)C)=O)=CC=C1.Cl	Impurity	DCTI-C-1461	1-(3-bromophenyl)-2-(tert-butylamino)propan-1-one hydrochloride	1049718-43-5	Bupropion hydrochloride Related compound-B	C13H18BrNO (Free Base) C13H19BrClNO (HCl Salt)	284.2 (Free Base) 320.7 (HCl Salt)
453		2-(tert-Butylamino)-4′-chloropropiophenone Hydrochloride	CC(NC(C)(C)C)C(C1=CC=C(Cl)C=C1)=O.Cl	Impurity	DCTI-C-1462	2-(tert-butylamino)-1-(4-chlorophenyl)propan-1-one hydrochloride	15945-05-8	Bupropion EP Impurity A; Bupropion USP Related Compound A; Bupropion Impurity 1; Bupropion Hydrochloride Related Compound A	C13H18ClNO (Free Base) C13H19Cl2NO (HCl Salt)	239.74 (Free Base) 276.20 (HCl Salt)
454		Bupropion Related compound-E	ClC1=CC=CC(C(C(C)=O)=O)=C1	impurity	DCTI-C-1275	1-(3-chlorophenyl)propane-1,2-dione	10557-17-2	Bupropion impurity-16; Bupropion USP Related Compound E; Bupropion impurity B	C9H7ClO2	182.6
455		(3S,5R,6R)- Bupropion Impurity	C[C@@H](N[C@@H](C(O)=O)CS1)[C@@]1(O)C2=CC=CC(Cl)=C2	impurity	DCTI-C-1259	(3S,5R,6R)-6-(3-chlorophenyl)-6-hydroxy-5-methylthiomorpholine-3-carboxylic acid	NA	NA	C12H14ClNO3S	287.76
456		(3S,5S,6S)- Bupropion Impurity	O[C@@]1(C2=CC=CC(Cl)=C2)SC[C@H](C(O)=O)N[C@H]1C	impurity	DCTI-C-1225	(3S,5S,6S)-6-(3-chlorophenyl)-6-hydroxy-5-methylthiomorpholine-3-carboxylic acid	2133460-42-9	NA	C12H14ClNO3S	287.76
457		4-Chloro Bupropion Hydrochloride	ClC1=C(Cl)C=C(C(C(NC(C)(C)C)C)=O)C=C1.Cl	Impurity	DCTI-C-1547	2-(tert-butylamino)-1-(3,4-dichlorophenyl)propan-1-one hydrochloride	1346598-72-8	Bupropion Impurity 12HCl; 1-Propanone, 1-(3,4-dichlorophenyl)-2-[(1,1-dimethylethyl)amino]-, hydrochloride (1:1)	$C_{13}H_{17}Cl_2NO$ (Free base) $C_{13}H_{18}Cl_3NO$ (HCl salt)	274.19 (free base) 310.64 (HCl salt)
458		5-Chloro Bupropion Hydrochloride	ClC1=CC(Cl)=CC(C(C(NC(C)(C)C)C)=O)=C1	Impurity	DCTI-C-1548	2-(tert-butylamino)-1-(3,5-dichlorophenyl)propan-1-one	1193779-48-4	Bupropion Impurity 13HCl; 1-Propanone, 1-(3,5-dichlorophenyl)-2-[(1,1-dimethylethyl)amino]-, hydrochloride (1:1)	$C_{13}H_{17}Cl_2NO$ (Free base) $C_{13}H_{18}Cl_3NO$ (HCl salt)	274.19 (free base) 310.64 (HCl salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
459		Bupropion Amine Hydrochloride	ClC1=CC=CC(C(C(C)N)=O)=C1.Cl	Impurity	DCTI-C-1549	2-amino-1-(3-chlorophenyl)propan-1-one hydrochloride	2227990-16-9	NA	$C_9H_{10}ClNO$ (Free base) $C_9H_{11}Cl_2NO$ (HCl Salt)	183-64 (Free base) 220.09 (HCl salt)
460		Bupropion Compound F	ClC1=CC=CC(C(O)C(C)=O)=C1	impurity	DCTI-C-2959	1-(3-chlorophenyl)-1-hydroxypropan-2-one	857233-13-7	Bupropion USP Related Compound F, 2-Propanone,1-(m-chlorophenyl)-1-hydroxy-(5Cl)	C9H9ClO2	184.62
461		N-Nitroso Bupropion	CC(N(N=O)C(C)(C)C)C(C1=CC=CC(Cl)=C1)=O	NDSRI	DCTI-C-3077	N-(tert-butyl)-N-(1-(3-chlorophenyl)-1-oxopropan-2-yl)nitrous amide	2763780-10-3	2-[tert-butyl(nitroso)amino]-1-(3-chlorophenyl)propan-1-one	C13H17ClN2O2	268.74
462		Threo-Dihydro Bupropion-HCl / Threo hydroxybupropion-HCl	ClC1=CC=CC([C@@H](O)[C@H](NC(C)(C)C)C)=C1.Cl	Metabolite	DCTI-A-097	(1R,2R)-2-(tert-butylamino)-1-(3-chlorophenyl)propan-1-ol hydrochloride	153365-82-3	NA	C13H21Cl2NO (HCl Salt) C13H20ClNO (Free base)	278.22 (HCl Salt) 241.76 (Free base)
463		Erythro Hydroxy Bupropion .HCl	ClC1=CC=CC([C@H](O)[C@H](NC(C)(C)C)C)=C1.Cl	Metabolite	DCTI-A-098	(1S,2R)-2-(tert-butylamino)-1-(3-chlorophenyl)propan-1-ol hydrochloride	99102-04-2(Freebase)	Erythro Hydroxy Bupropion .HCl	C13H21Cl2NO (HCl Salt) C13H20ClNO (Free base)	278.22 (HCl Salt) 241.76 (Free base)
464		Hydroxy Bupropion	OC1(C2=CC=CC(Cl)=C2)C(C)NC(C)(C)CO1	Metabolite	DCTI-A-095	2-(3-chlorophenyl)-3,5,5-trimethylmorpholin-2-ol	357399-43-0	NA	C13H18ClNO2	255.74
465		Deschloro Bupropion Hydrochloride	O=C(C(C)NC(C)(C)C)C1=CC=CC=C1.Cl	Impurity	DCTI-C-1550	2-(tert-butylamino)-1-phenylpropan-1-one hydrochloride	63199-74-6	Bupropion Impurity 3; Bupropion USP Related Compound D	$C_{13}H_{19}NO$ (Free base) $C_{13}H_{20}ClNO$ (HCl salt)	205.30 (Free base) 241.76 (HCl salt)
466		O-Bupropion Hydrochloride	O=C(C(C)NC(C)(C)C)C1=CC=CC=C1Cl.Cl	Impurity	DCTI-C-1551	2-(tert-butylamino)-1-(2-chlorophenyl)propan-1-one hydrochloride	1049718-57-1	3-Deschloro-2-Chloro Bupropion HCl; 1-Propanone, 1-(2-Chlorophenyl)-2-[(1,1-dimethylethyl)amino]-, hydrochloride	$C_{13}H_{18}ClNO$ (Free base) $C_{13}H_{19}Cl_2NO$ (HCl salt)	239.74 (Free base) 276.20 (HCl salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
467	Buspirone	Buspirone EP Impurity N	O=C1N(CCCCN2C(CC3(CCCC3)CC2=O)=O)C(CC4(CCCC4)C1)=O	Impurity	DCTI-C-251	8,8'-(butane-1,4-diyl)bis(8-azaspiro[4.5]decane-7,9-dione)	257877-44-4	NA	C22H32N2O4	388.51
468		Buspirone N-Oxide	O=C1N(CCCC[N+]2([O-])CCN(C3=NC=CC=N3)CC2)C(CC4(CCCC4)C1)=O	metabolite	DCTI-C-284	1-(4-(7,9-dioxo-8-azaspiro[4.5]decan-8-yl)butyl)-4-(pyrimidin-2-yl)piperazine 1-oxide	220747-81-9	8-[4-[1-Oxido-4-(2-pyrimidinyl)-1-piperazinyl]butyl]-8-azaspiro[4.5]decane-7,9-dione; Buspirone N Oxide Impurity	C21H31N5O3	401.51
469		Buspirone EP Impurity E	O=C(NCCCCN1CCN(C2=NC=CC=N2)CC1)CC3(CCCC3)CC(O)=O	Impurity	DCTI-C-2980	2-(1-(2-oxo-2-((4-(4-(pyrimidin-2-yl)piperazin-1-yl)butyl)amino)ethyl)cyclopentyl)acetic acid	257877-43-3	NA	C21H33N5O3	403.53
470		Buspirone Open Ring Ethyl Ester Impurity	O=C(NCCCCN1CCN(C2=NC=CC=N2)CC1)CC3(CCCC3)CC(OCC)=O	Impurity	DCTI-C-3000	Ethyl 2-(1-(2-oxo-2-((4-(4-(pyrimidin-2-yl)piperazin-1-yl)butyl)amino)ethyl)cyclopentyl)acetate	NA	NA	C23H37N5O3	431.58
471		Buspirone Open Ring n-Butyl Ester Impurity	O=C(NCCCCN1CCN(C2=NC=CC=N2)CC1)CC3(CCCC3)CC(OCCCC)=O	Impurity	DCTI-C-3009	Butyl 2-(1-(2-oxo-2-((4-(4-(pyrimidin-2-yl)piperazin-1-yl)butyl)amino)ethyl)cyclopentyl)acetate	NA	NA	C25H41N5O3	459.63
472		Buspirone Impurity K	O=C(C1)NC(CC21CCCC2)=O	Impurity	DCTI-C-3010	8-azaspiro[4.5]decane-7,9-dione	1075-89-4	NA	C9H13NO2	167.21

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
473		Buspirone Impurity J	O=C(CC1(CC(OCCCCN2C(CC3(CCCC3)CC2=O)=O)=O)CCCC1)NCCCCN4CCN(C5=NC=CC=N5)CC4	Impurity	DCTI-C-3120	4-(7,9-dioxo-8-azaspiro[4.5]decan-8-yl)butyl 2-(1-(2-oxo-2-((4-(4-(pyrimidin-2-yl)piperazin-1-yl)butyl)amino)ethyl)cyclopentyl)acetate	2726492-72-2	Buspirone EP Impurity J	C34H52N6O5	624.83
474		Buspirone Related Impurity	O=C(CC1(CC(N2CCN(C3=NC=CC=N3)CC2)=O)CCCC1)NCCCCN4CCN(C5=NC=CC=N5)CC4	Impurity	DCTI-C-3121	2-(1-(2-oxo-2-(4-(pyrimidin-2-yl)piperazin-1-yl)ethyl)cyclopentyl)-N-(4-(4-(pyrimidin-2-yl)piperazin-1-yl)butyl)acetamide	NA	NA	C29H43N9O2	549.72
475	**Cabergoline**	N-Nitroso Desmethyl Cabergoline	C=CCN1[C@@]2([H])[C@@](C[C@H](C1)C(N(CCCN(N=O)C)C(NCC)=O)=O)([H])C3=CC=CC4=C3C(C2)=CN4	NDSRI	DCTI-C-3336	(6aR,9R,10aR)-7-allyl-N-(ethylcarbamoyl)-N-(3-(methyl(nitroso)amino)propyl)-4,6,6a,7,8,9,10,10a-octahydroindolo[4,3-fg]quinoline-9-carboxamide	NA	N-Nitroso N-Desmethyl Cabergoline (Mixture of isomers)	C25H34N6O3	466.59
476		Cabergoline EP Impurity A	C=CCN1[C@@]2([H])[C@@](C[C@H](C1)C(O)=O)([H])C3=CC=CC4=C3C(C2)=CN4	Impurity	DCTI-C-3414	(6aR,9R,10aR)-7-allyl-4,6,6a,7,8,9,10,10a-octahydroindolo[4,3-fg]quinoline-9-carboxylic acid	81409-74-7	6-Allyl-8beta-carboxyergoline; 6-(2-Propenyl)-ergoline-8-carboxylic acid; 6-(2-Propenyl)dihydrolysergic acid	C18H20N2O2	296.37
477		Cabergoline EP Impurity D	C=CCN1[C@@]2([H])[C@@](C[C@H](C1)C(NCCCN(C)C)=O)([H])C3=CC=CC4=C3C(C2)=CN4	Impurity	DCTI-C-3415	(6aR,9R,10aR)-7-allyl-N-(3-(dimethylamino)propyl)-4,6,6a,7,8,9,10,10a-octahydroindolo[4,3-fg]quinoline-9-carboxamide	85329-86-8	Desethylcarbamoyl Cabergoline	C23H32N4O	380.54
478		Cabotegravir Intermediate-1	O=C(c(c1OC)n(CC(OC)OC)cc(C(O)=O)c1=O)OC	impurity	DCTI-C-1826	1-(2,2-dimethoxyethyl)-5-methoxy-6-(methoxycarbonyl)-4-oxo-1,4-dihydropyridine-3-carboxylic acid	NA	NA	C13H17NO8	315.27

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479	Cabotegravir	Cabotegravir RS isomer	C[C@@H]1CO[C@]2([H])N1C(c(c3O)n(C2)cc(C(NCc4c(F)cc(F)cc4)=O)c3=O)=O	impurity	DCTI-C-1589	(3R,11aS)-N-(2,4-difluorobenzyl)-6-hydroxy-3-methyl-5,7-dioxo-2,3,5,7,11,11a-hexahydrooxazolo[3,2-a]pyrido[1,2-d]pyrazine-8-carboxamide	NA	Cabotegravir enantiomer, (3R,11aS) - Cabotegravir	C19H17F2N3O5	405.35
480		Cabotegravir impurity 1	C[C@@H]1CO[C@]2([H])N1C(c(c3OC)n(C2)cc(C(NCc4c(F)cc(F)cc4)=O)c3=O)=O	Impurity	DCTI-C-1739	(3R,11aS)-N-(2,4-difluorobenzyl)-6-methoxy-3-methyl-5,7-dioxo-2,3,5,7,11,11a-hexahydrooxazolo[3,2-a]pyrido[1,2-d]pyrazine-8-carboxamide	NA	NA	C20H19F2N3O5	419.38
481		Cabotegravir RR Isomer	C[C@@H]1CO[C@@]2([H])N1C(C3=C(O)C(C(C(NCC4=C(F)C=C(F)C=C4)=O)=CN3C2)=O)=O	Impurity	DCTI-C-1793	(3R,11aR)-N-(2,4-difluorobenzyl)-6-hydroxy-3-methyl-5,7-dioxo-2,3,5,7,11,11a-hexahydrooxazolo[3,2-a]pyrido[1,2-d]pyrazine-8-carboxamide	NA	(3R,11aR)-Cabotegravir	C19H17F2N3O5	405.35
482		Cabotegravir SS Isomer	C[C@H]1CO[C@]2([H])N1C(C3=C(O)C(C(C(NCC4=C(F)C=C(F)C=C4)=O)=CN3C2)=O)=O	impurity	DCTI-C-2205	(3S,11aS)-N-(2,4-difluorobenzyl)-6-hydroxy-3-methyl-5,7-dioxo-2,3,5,7,11,11a-hexahydrooxazolo[3,2-a]pyrido[1,2-d]pyrazine-8-carboxamide	NA	(3S,11aS)-Cabotegravir	C19H17F2N3O6	405.35
483		2-CBT Nitro	COC(C(OC)=C1)=CC(C1=NC=C2)=C2OC3=C([N+]([O-])=O)C=CC=C3	Impurity	DCTI-C-559	6,7-dimethoxy-4-(2-nitrophenoxy)quinoline	190728-26-8	NA	C17H14N2O5	326.31
484		3-CBT Amine	COC(C(OC)=C1)=CC(C1=NC=C2)=C2OC3=CC(N)=CC=C3	Impurity	DCTI-C-560	3-((6,7-dimethoxyquinolin-4-yl)oxy)aniline	202917-04-2	NA	C17H16N2O3	296.33

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485		3-CBT-Nitro	COC(C(OC)=C1)=CC(C1=NC=C2)=C2OC3=CC([N+](([O-])=O)=CC=C3	Impurity	DCTI-C-561	6,7-dimethoxy-4-(3-nitrophenoxy)quinoline	202917-05-3	NA	C17H14N2O5	326.31
486		Cabozantib amide cleavage product	O=C(C1(CC1)C(O)=O)NC2=CC=C(OC3=C(C=C(OC)C(OC)=C4)C4=NC=C3)C=C2	metabolite	DCTI-C-562	1-((4-((6,7-dimethoxyquinolin-4-yl)oxy)phenyl)carbamoyl)cyclopropane-1-carboxylic acid	849217-77-2	NA	C22H20N2O6	408.41
487		CBT Desfluoro	O=C(C1(CC1)C(NC2=CC=CC=C2)=O)NC3=CC=C(OC4=C(C=C(OC)C(OC)=C5)C5=NC=C4)C=C3	Impurity	DCTI-C-563	N-(4-((6,7-dimethoxyquinolin-4-yl)oxy)phenyl)-N-phenylcyclopropane-1,1-dicarboxamide	849221-94-9	NA	C28H25N3O5	483.52
488		Des Fluoro CBT Cyclopropyl Amide	O=C(C1(CC1)C(O)=O)NC2=CC=CC=C2	Impurity	DCTI-C-564	1-(phenylcarbamoyl)cyclopropane-1-carboxylic acid	145591-80-6	NA	C11H11NO3	205.21
489		CBT 3-fluoro	O=C(C1(CC1)C(NC2=CC=CC(F)=C2)=O)NC3=CC=C(OC4=C(C=C(OC)C(OC)=C5)C5=NC=C4)C=C3	Impurity	DCTI-C-565	N-(4-((6,7-dimethoxyquinolin-4-yl)oxy)phenyl)-N-(3-fluorophenyl)cyclopropane-1,1-dicarboxamide	NA	NA	C28H24FN3O5	501.51
490		3-fluoro CBT Cyclopropyl amide	O=C(C1(CC1)C(O)=O)NC2=CC(F)=CC=C2	Impurity	DCTI-C-566	1-((3-fluorophenyl)carbamoyl)cyclopropane-1-carboxylic acid	1247859-37-5	NA	C11H10FNO3	223.2

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491	Cabozantinib	CBT 2-fluoro	O=C(C1(CC1)C(NC2=CC=CC=C2F)=O)NC3=CC=C(OC4=C(C=C(OC)C(OC)=C5)C5=NC=C4)C=C3	Impurity	DCTI-C-567	N-(4-((6,7-dimethoxyquinolin-4-yl)oxy)phenyl)-N-(2-fluorophenyl)cyclopropane-1,1-dicarboxamide	NA	NA	C28H24FN3O5	501.51
492		2-fluoro CBT Cyclopropyl amide	O=C(C1(CC1)C(O)=O)NC2=C(F)C=CC=C2	Impurity	DCTI-C-568	1-((2-fluorophenyl)carbamoyl)cyclopropane-1-carboxylic acid	918642-61-2	NA	C11H10FNO3	223.2
493		CBT Dimer	COC(C(OC)=CC1=NC=C2)=CC1=C2OC3=CC=C(C=C3)NC4=CC=NC5=C4C=C(OC)C(OC)=C5	Impurity	DCTI-C-569	N-(4-((6,7-dimethoxyquinolin-4-yl)oxy)phenyl)-6,7-dimethoxyquinolin-4-amine	NA	NA	C28H25N3O5	483.52
494		Cabozantinib monohydroxy sulfate	O=C(C1(CC1)C(NC2=CC=C(F)C=C2O)=O)NC(C=C3)=CC=C3OC4=CC=NC5=CC(OC)=C(OC)C=C54	Impurity	DCTI-C-570	N-(4-((6,7-dimethoxyquinolin-4-yl)oxy)phenyl)-N-(4-fluoro-2-hydroxyphenyl)cyclopropane-1,1-dicarboxamide	1628530-38-0	NA	C28H24FN3O6	517.51
495		Cabozantinib N-oxide	O=C(C1(CC1)C(NC2=CC=C(F)C=C2)=O)NC(C=C3)=CC=C3OC4=CC=N(C5=CC(OC)=C(OC)C=C54)=O	metabolite	DCTI-C-571	4-(4-(1-((4-fluorophenyl)carbamoyl)cyclopropane-1-carboxamido)phenoxy)-6,7-dimethoxyquinoline 1-oxide	1621681-63-7	NA	C28H24FN3O6	517.51
496		2-CBT Amine	COC(C(OC)=C1)=CC(C1=NC=C2)=C2OC3=C(N)C=CC=C3	Impurity	DCTI-C-619	2-((6,7-dimethoxyquinolin-4-yl)oxy)aniline	190728-27-9	NA	C17H16N2O3	296.33

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497		N-(4-fluorophenyl)-N-(4-((7-hydroxy-6-methoxyquinolin-4-yl)oxy)phenyl)cyclopropane-1,1-dicarboxamide	O=C(NC(C=C1)=CC=C1OC2=CC=NC3=CC(O)=C(OC)C=C23)C4(CC4)C(NC5=CC=C(F)C=C5)=O	metabolite	DCTI-C-3203	N-(4-fluorophenyl)-N-(4-((7-hydroxy-6-methoxyquinolin-4-yl)oxy)phenyl)cyclopropane-1,1-dicarboxamide	1628530-42-6	NA	C27H22FN3O5	487.49
498		N'-(4-fluorophenyl)-N-(4-((6-hydroxy-7-methoxyquinolin-4-yl)oxy)phenyl)cyclopropane-1,1-dicarboxamide	O=C(NC(C=C1)=CC=C1OC2=CC=NC3=CC(OC)=C(O)C=C23)C4(CC4)C(NC5=CC=C(F)C=C5)=O	IMPURITY	DCTI-C-3259	N-(4-fluorophenyl)-N-(4-((6-hydroxy-7-methoxyquinolin-4-yl)oxy)phenyl)cyclopropane-1,1-dicarboxamide	1628530-47-1	NA	C27H22FN3O5	487.49
499		Cabozantinib Acid impurity	O=C(C1(C(NC2=CC=C(F)C=C2)=O)CC1)O	IMPURITY	DCTI-C-3263	1-((4-fluorophenyl)carbamoyl)cyclopropane-1-carboxylic acid	na	Cabozantinib impurity 6	C11H10FNO3	223.2
500		Cabozantinib Hydroxy impurity	O=C(C1(CC1)C(NC2=CC=C(C=C2)O)=O)NC3=CC=C(C=C3)F	IMPURITY	DCTI-C-3264	N-(4-fluorophenyl)-N-(4-hydroxyphenyl)cyclopropane-1,1-dicarboxamide	849217-60-3	Cabozantinib impurity 7	C17H15FN2O3	314.32
501	**Camphorsulphonate**	Isopropyl Camphorsulphonate	CC1(C)C2(CS(OC(C)C)(=O)=O)CCC1CC2=O	Impurity	DCTI-C-370	isopropyl (7,7-dimethyl-2-oxobicyclo[2.2.1]heptan-1-yl)methanesulfonate	NA	NA	C13H22O4S	274.38
502		Methyl Camphorsulphonate	CC1(C)C2(CS(OC)(=O)=O)CCC1CC2=O	Impurity	DCTI-C-371	methyl (7,7-dimethyl-2-oxobicyclo[2.2.1]heptan-1-yl)methanesulfonate	46471-67-4	NA	C11H18O4S	246.32
503		Canagliflozin Side chain impurity	CC1=CC=C(I)C=C1C(C2=CC=C(C3=CC=CC=C3)S2)=O	Impurity	DCTI-C-2886	(5-iodo-2-methylphenyl)(5-phenylthiophen-2-yl)methanone	2070015-44-8	Canagliflozin related impurity	C18H13IOS	404.27

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
504	**Canagliflozin**	Canagliflozin Impurity 20	CC1=CC=C(I)C=C1CC2=CC=C(C3=CC=CC=C3)S2	Impurity	DCTI-C-2890	2-(5-iodo-2-methylbenzyl)-5-phenylthiophene	2444540-01-4	NA	C18H15IS	390.28
505		2-(4-fluorophenyl)-5-(5-iodo-2-methylbenzyl)thiophene	IC1=CC=C(C)C(CC2=CC=C(C3=CC=C(F)C=C3)S2)=C1	Impurity	DCTI-C-3060	2-(4-fluorophenyl)-5-(5-iodo-2-methylbenzyl)thiophene	898566-17-1	2-(4-fluorophenyl)-5-((5-iodo-2-methylphenyl)methyl)thiophene	C18H14FIS	408.27
506		2-(4-fluorophenyl)-5-(2-methylbenzyl)thiophene	CC1=CC=CC=C1CC2=CC=C(C3=CC=C(F)C=C3)S2	Impurity	DCTI-C-3078	2-(4-fluorophenyl)-5-(2-methylbenzyl)thiophene	2005454-69-1	2-(4-fluorophenyl)-5-((2-methylphenyl)methyl)thiophene; Des Iodo of CGF-2	C18H15FS	282.38
507	**Candesartan**	Candesartan N2-ethyl Benzimidazole Methyl Ester Impurity	O=C(C1=C2N(CC3=CC=C(C4=CC=CC=C4C5=NN(CC)N=N5)C=C3)C(OCC)=NC2=CC=C1)OC	IMPURITY	DCTI-C-2433	Methyl 2-ethoxy-1-((2'-(2-ethyl-2H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo [d]imidazole-7-carboxylate	na	na	C27H26N6O3	482.54
508	**Capecitabine**	Capecitabine Isomers Mixture	CC(C)CCOC(NC1=NC(N([C@@H]2O[C@@H]([C@H]([C@H]2O)O)C)C=C1F)=O)=O.CCC(C)COC(NC3=NC(N([C@@H]4O[C@@H]([C@H]([C@H]4O)O)C)C=C3F)=O)=O	IMPURITY	DCTI-C-3523	2-methylbutyl (1-((2R,3R,4S,5R)-3,4-dihydroxy-5-methyltetrahydrofuran-2-yl)-5-fluoro-2-oxo-1,2-dihydropyrimidin-4-yl)carbamate and isopentyl (1-((2R,3R,4S,5R)-3,4-dihydroxy-5-methyltetrahydrofuran-2-yl)-5-fluoro-2-oxo-1,2-dihydropyrimidin-4-yl)carbamate	910129-15-6(2-Methyl Analog) 162204-30-0(3-Methyl Analog)	NA	C15H22FN3O6	359.35
509		Capecitabine EP impurity E	CC(C)CCOC(NC1=NC(N([C@@H]2O[C@@H]([C@H]([C@H]2O)O)C)C=C1F)=O)=O	IMPURITY	DCTI-C-3536	Isopentyl (1-((2R,3R,4S,5R)-3,4-dihydroxy-5-methyltetrahydrofuran-2-yl)-5-fluoro-2-oxo-1,2-dihydropyrimidin-4-yl)carbamate	162204-30-0	5'-Deoxy-5-fluoro-N-[(3-methylbutoxy)carbonyl]cytidine	C15H22FN3O6	359.35
510		Capecitabine EP impurity D	CCC(C)COC(NC1=NC(N([C@@H]2O[C@@H]([C@H]([C@H]2O)O)C)C=C1F)=O)=O	IMPURITY	DCTI-C-3537	2-methylbutyl (1-((2R,3R,4S,5R)-3,4-dihydroxy-5-methyltetrahydrofuran-2-yl)-5-fluoro-2-oxo-1,2-dihydropyrimidin-4-yl)carbamate	910129-15-6	5'-Deoxy-5-fluoro-N-[(2-methylbutoxy)carbonyl]cytidine	C15H22FN3O6	359.35

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
511	Carbamazepine	Carbamazepine EP Impurity A	O=C(N1C2=CC=CC=C2CCC3=CC=CC=C31)N	impurity	DCTI-C-948	10,11-dihydro-5H-dibenzo[b,f]azepine-5-carboxamide	3564-73-6	NA	C15H14N2O	238.29
512		10-oxo-10,11-dihydro-5H-dibenzo[b,f]azepine-5-carbonitrile	O=C1C2=C(C=CC=C2)N(C#N)C3=CC=CC=C3C1	impurity	DCTI-C-949	10-oxo-10,11-dihydro-5H-dibenzo[b,f]azepine-5-carbonitrile	78880-65-6	5H-Dibenz[b,f]azepine-5-carbonitrile	C15H10N2O	234.25
513	Carbidopa	Carbidopa EP Impurity I	OC(C(NN)(C)CC1=CC(Br)=C(O)C(O)=C1)=O	Impurity	DCTI-C-707	3-(3-bromo-4,5-dihydroxyphenyl)-2-hydrazineyl-2-methylpropanoic acid	1246819-09-9	3-Bromo Carbidopa	C10H13BrN2O4	305.13
514		Melevodopa/L-Dopa methyl ester.HCl	OC1=C(O)C=CC(C[C@H](N)C(OC)=O)=C1.Cl	Impurity	DCTI-C-1768	methyl (S)-2-amino-3-(3,4-dihydroxyphenyl)propanoate hydrochloride	NA	L-Tyrosine, 3-hydroxy-, methyl ester, hydrochloride (9CI); (S)-Dopa methyl ester hydrochloride; 3,4-Dihydroxyphenyl-L-alanine methyl ester hydrochloride; 3-Hydroxy-L	C10H13NO4 (Free Base) C10H14ClNO4 (HCl Salt)	211.22 (Free Base) 247.68 (HCl Salt)
515		Etilevodopa/L-Dopa ethyl ester. HCl	OC1=C(O)C=CC(C[C@H](N)C(OCC)=O)=C1.Cl	Impurity	DCTI-C-1769	Ethyl (S)-2 -amino-3-(3,4-dihydroxyphenyl)propanoate hydrogen chloride	NA	L-Tyrosine, 3-hydroxy-, ethyl ester, hydrochloride (9CI); 3,4-Dihydroxyphenyl-L-alanine ethyl ester hydrochloride	C11H15NO4 (Free Base) C11H16ClNO4 (HCl Salt)	225.24 (Free Base) 261.70 (HCl Salt)
516		(S)-Carbidopa ethyl ester	OC1=CC=C(C[C@@](NN)(C)C(OCC)=O)C=C1O	Impurity	DCTI-C-764	ethyl (S)-3-(3,4-dihydroxyphenyl)-2-hydrazineyl-2-methylpropanoate	1458640-32-8	NA	C12H18N2O4	254.29
517		Carbidopa EP Impurity J	OC(C(NN)(C)CC1=C(Br)C=C(O)C(O)=C1)=O	Impurity	DCTI-C-840	3-(2-bromo-4,5-dihydroxyphenyl)-2-hydrazineyl-2-methylpropanoic acid	1246817-47-9	NA	C10H13BrN2O4	305.13
518		Carbidopa EP Impurity C	O=C(O)[C@@](C)(NN)CC1=CC=C(O)C(OC)=C1	Impurity	DCTI-C-888	2-hydrazinyl-3-(4-hydroxy-3-methoxyphenyl)-2-methylpropanoic acid	85933-19-3	3-O-Methylcarbidopa	C11H16N2O4	240.26

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519		Carbidopa EP Impurity H	OC1=C(OC)C=CC(CC(NN)(C)C(O)=O)=C1	Impurity	DCTI-C-922	2-hydrazineyl-3-(3-hydroxy-4-methoxyphenyl)-2-methylpropanoic acid	2470439-16-6	4-O-Methylcarbidopa	C11H16N2O4	240.26
520		(S)-Carbidopa methyl ester	OC1=CC=C(C[C@@](NN)(C)C(OC)=O)C=C1O.Cl	impurity	DCTI-C-1213	methyl (S)-3-(3,4-dihydroxyphenyl)-2-hydrazineyl-2-methylpropanoate	52514-63-3	Carbidopa Impurity E	C11H17ClN2O4 (HCl Salt) C11H16N2O4 (Free base)	276.72 (HCl Salt) 240.26 (Free base)
521		3-Methylcinnoline-6,7 diol	OC1=C(O)C=C(C=C(C)N=N2)C2=C1	Impurity	DCTI-C-2535	3-methylcinnoline-6,7-diol	1176784-51-2	Carbidopa Impurity 4; 3-Methyl-6,7-cinnolinediol	C9H8N2O2	176.18
522		N-Nitroso Carbidopa Acetate Salt	OC1=CC(C[C@@](N(N=O)N)(C)C(O)=O)=CC=C1O.CC([O-])=O	NDSRI	DCTI-C-3658	(S)-3-(3,4-dihydroxyphenyl)-2-methyl-2-(1-nitrosohydrazineyl)propanoic acid, acetate salt	NA	NA	Free Acid: C10H13N3O5 Acetate Salt: Chemical Formula: C12H17N3O7-	Free Acid: 255.23 Acetate Salt: 315.28
523	**Carminomycin**	13-(S) Dihydrocarminomycin	OC1=C(C(C2=CC=CC(O)=C2C3=O)=O)C3=C(O)C4=C1C[C@](C[C@@H](O)C)(O)C[C@@H]4O[C@H]5C[C@@H]([C@@H]([C@@H](O5)C)O)N	impurity	DCTI-C-1978	(8S,10S)-10-(((2R,4S,5S,6S)-4-amino-5-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-1,6,8,11-tetrahydroxy-8-((S)-1-hydroxyethyl)-7,8,9,10-tetrahydrotetracene-5,12-dione	NA	Carminomycinol, Dihydrocarminomycin	C26H29NO10	515.52
524		3-(2-chloroethyl)-1-(2-hydroxyethyl)-1-nitrosourea	O=C(N(N=O)CCO)NCCCl	Impurity	DCTI-C-721	3-(2-chloroethyl)-1-(2-hydroxyethyl)-1-nitrosourea	96806-34-7	NA	C5H10ClN3O3	195.6
525	**Carmustine**	1-(2-chloroethyl)-3-(2-hydroxyethyl)-1-nitrosourea	O=C(NCCO)N(N=O)CCCl	NDSRI	DCTI-C-722	1-(2-chloroethyl)-3-(2-hydroxyethyl)-1-nitrosourea	60784-46-5	Elmustine; Hemustine; NSC 294895; HECNU	C5H10ClN3O3	195.6

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526		1,3-bis(2-hydroxyethyl)urea	O=C(NCCO)NCCO	Impurity	DCTI-C-850	1,3-bis(2-hydroxyethyl)urea	15438-70-7	NA	C5H12N2O3	148.16
527		N-Isopropyl Carvedilol	OC(CN(C(C)C)CCOC1=CC=CC=C1OC)COC2=C3C(NC4=C3C=CC=C4)=CC=C2	Impurity	DCTI-C-2352	1-((9H-carbazol-4-yl)oxy)-3-(isopropyl(2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	1246819-01-1	NA	C27H32N2O4	448.56
528		Carvedilol Biscarbazole Impurity	OC(COC1=CC=CC(N2)=C1C3=C2C=CC=C3)COC4=CC=CC(N5)=C4C6=C5C=CC=C6	Impurity	DCTI-C-2353	1,3-bis((9H-carbazol-4-yl)oxy)propan-2-ol	1276477-91-8	NA	C27H22N2O3	422.48
529		Carvedilol EP Impurity- A .TFA salt	OC(COC1=CC=CC2=C1C3=C(C=CC=C3)N2CC(O)CNCCOC4=CC=CC=C4OC)CNCCOC5=C(OC)C=CC=C5.O=C(C(F)(F)F)O	Impurity	DCTI-C-2354	1-(4-(2-hydroxy-3-((2-(2-methoxyphenoxy)ethyl)amino)propoxy)-9H-carbazol-9-yl)-3-((2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol 2,2,2-trifluoroacetate	1198090-73-1 (Free Base)	NA	C36H43N3O7 (Free base) C38H44F3N3O9 (Salt)	629.75 (Free base) 743.78 (Salt)
530		Carvedilol EP Impurity B	OC(CN(CCOC1=C(OC)C=CC=C1)CC(O)COC2=CC=CC3=C2C4=CC=CC=C4N3)COC5=CC=CC6=C5C7=CC=CC=C7N6	Impurity	DCTI-C-2355	3,3'-((2-(2-methoxyphenoxy)ethyl)azanediyl)bis(1-((9H-carbazol-4-yl)oxy)propan-2-ol)	918903-20-5	NA	C39H39N3O6	645.76
531		Carvedilol EP Impurity-C	OC(COC1=CC=CC(N2)=C1C3=C2C=CC=C3)CN(CC4=CC=CC=C4)CCOC5=CC=CC=C5OC	Impurity	DCTI-C-2356	1-((9H-carbazol-4-yl)oxy)-3-(benzyl(2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	72955-94-3	NA	C31H32N2O4	496.61

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532	Carvedilol	(R)- N-Benzyl Carvedilol	COC(C=CC=C1)=C1OCCN(CC2=CC=CC=C2)C[C@@H](O)COC3=CC=CC4=C3C5=C(C=CC=C5)N4	Impurity	DCTI-C-2284	(R)-1-((9H-carbazol-4-yl)oxy)-3-(benzyl(2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	224782-76-7	(2R)-1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl](phenylmethylamino]-2-propanol	C31H32N2O4	496.61
533		(R)-(+)-Carvedilol	COC(C=CC=C1)=C1OCCNC[C@@H](O)COC2=CC=CC3=C2C4=C(C=CC=C4)N3	Impurity	DCTI-C-2278	(R)-1-((9H-carbazol-4-yl)oxy)-3-((2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	95093-99-5	NA	C24H26N2O4	406.48
534		(S)-(-)-Carvedilol	COC(C=CC=C1)=C1OCCNC[C@H](O)COC2=CC=CC3=C2C4=C(C=CC=C4)N3	Impurity	DCTI-C-2277	(S)-1-((9H-carbazol-4-yl)oxy)-3-((2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	95094-00-1	NA	C24H26N2O5	406.48
535		Carvedilol Bisalkylpyrocatechol impurity .TFA salt	OC(CNCCOC1=CC=CC=C1OCCNCC(O)COC2=C3C4=CC=CC=C4NC3=CC=C2)COC5=C6C7=CC=CC=C7NC6=CC=C5.OC(C(F)(F)F)=O	Impurity	DCTI-C-2276	3,3'-(((1,2-phenylenebis(oxy))bis(ethane-2,1-diyl))bis(azanediyl))bis(1-((9H-carbazol-4-yl)oxy)propan-2-ol) 2,2,2-trifluoroacetate	NA	Carvedilol O-Desmethyl O-Alkyl Impurity	C42H43F3N4O8 (TFA Salt) ; C40H43N4O6 (free Base)	788.82 (TFA Salt) ; 674.80 (free base)

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536		Carvedilol EP Impurity D	OC(CNCCOC1=C(C=CC=C1)OC)COC2=CC=CC3=C2C4=C(N3CC(COC5=CC=CC6=C5C7=C(N6)C=CC=C7)O)C=CC=C4	Impurity	DCTI-C-2304	1-((9H-carbazol-4-yl)oxy)-3-(4-(2-hydroxy-3-((2-(2-methoxyphenoxy)ethyl)amino)propoxy)-9H-carbazol-9-yl)propan-2-ol	1391052-16-6	Carvedilol Impurity D	C39H39N3O6	645.76
537		(S)- N-Benzyl Carvedilol	COC(C=CC=C1)=C1OCCN(CC2=CC=CC=C2)C[C@H](O)COC3=CC=CC4=C3C5=C(C=CC=C5)N4	Impurity	DCTI-C-2285	(S)-1-((9H-carbazol-4-yl)oxy)-3-(benzyl(2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	224782-73-4	(2S)-1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl](phenylmethylamino]-2-propanol	C31H32N2O4	496.61
538		Carvedilol EP impurity E .HCl salt	NCCOC1=CC=CC=C1OC.Cl	Impurity	DCTI-C-2270	2-(2-methoxyphenoxy)ethan-1-amine hydrochloride	1836-62-0 (free base)	Carvedilol Related Compound E	C9H13NO2 (free base) ; C9H13NO2.HCl (HCl salt)	167.21 (free base) ; 203.67 (HCl salt)
539		Carvedilol Impurity 12	COC1=CC=CC=C1OCCN(CCOC2=C(OC)C=CC=C2)CC(COC3=C(C(C=CC=C4)=C4N5)C5=CC=C3)O	Impurity	DCTI-C-2275	1-((9H-carbazol-4-yl)oxy)-3-(bis(2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol	1059573-45-3	NA	C33H36N2O6	556.66
540		Des-Carbazole imp from KSM	OC(COC1=C2C3=C(NC2=CC=C1)CCCC3)CNCCOC4=C(OC)C=CC=C4	Impurity	DCTI-C-2305	1-((2-(2-methoxyphenoxy)ethyl)amino)-3-((2,3,4,9-tetrahydro-1H-carbazol-5-yl)oxy)propan-2-ol	1246820-73-4	Carvedilol Related Compound F ; 6,7,8,9-Tetrahydro Carvedilol	C24H30N2O4	410.51
541		Carvedilol Impurity Bis Stage-A amine coupling	OC(CNCCOCCNCC(O)COC1=CC=CC(N2)=C1C3=C2C=CC=C3)COC4=CC=CC(N5)=C4C6=C5C=CC=C6	Impurity	DCTI-C-2357	3,3'-((oxybis(ethane-2,1-diyl))bis(azanediyl))bis(1-((9H-carbazol-4-yl)oxy)propan-2-ol)	NA	NA	C34H38N4O5	582.7

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542		Carvedilol Related Compound D	C1(NC2=C3C=CC=C2)=C3C(OCC4CO4)=CC=C1	Impurity	DCTI-C-2358	4-(oxiran-2-ylmethoxy)-9H-carbazole	51997-51-4	NA	C15H13NO2	239.27
543		Carvedilol Nitroso Impurity	OC(COC1=CC=CC2=C1C3=C(C=CC=C3)N2N=O)CNCCOC4=C(OC)C=CC=C4	NDSRI	DCTI-C-3052	(1-((2-(2-methoxyphenoxy)ethyl)amino)-3-((9-nitroso-9H-carbazol-4-yl)oxy)propan-2-ol	NA	Nitroso Carvedilol	C24H25N3O5	435.48
544	**Cefepime**	Cefepime sulfoxides	[O-]C(C(N1[C@@]2([H])[C@@H](C1=O)NC(/C(C3=CSC(N)=N3)=N\OC)=O)=C(C[N+]4(CCCC4)C)CS2=O)=O	impurity	DCTI-C-1463	(6R,7R)-7-((Z)-2-(2-aminothiazol-4-yl)-2-(methoxyimino)acetamido)-3-((1-methylpyrrolidin-1-ium-1-yl)methyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate 5-oxide	112258-91-0	NA	C19H25N6O6S2+	497.56
545	**Ceftazidime**	Desacetylceftazidime Lactone Impurity	CC(C)(O/N=C(C1=CSC(N)=N1)\C(N[C@@H]([C@@]2([H])SCC3=C(C(OC3)=O)N24)C4=O)=O)C(O)=O	Impurity	DCTI-C-1464	2-((((Z)-1-(2-aminothiazol-4-yl)-2-(((5aR,6R)-1,7-dioxo-1,4,5a,6-tetrahydro-3H,7H-azeto[2,1-b] furo[3,4-d] [1,3] thiazin-6-yl) amino)-2-oxoethylidene) amino) oxy)-2-methylpropanoic acid	1301254-50-1	NA	C17H17N5O7S2	467.47
546		Ceftazidime EP impurity G	CC(C)(O/N=C(C1=CSC(N)=N1)\C(NCC=O)=O)C(O)=O.Cl	Impurity	DCTI-C-1465	(Z)-2-(((1-(2-aminothiazol-4-yl)-2-oxo-2-((2-oxoethyl) amino) ethylidene) amino) oxy)-2-methylpropanoic acid hydrochloride	194241-83-3	NA	C11H14N4O5S (free base) : C11H15ClN4O5S (with salt)	314.32 (free base) 350.77 (with salt)

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547	Cefadroxil	Diketopiperazine derivative	O=C(C(NC/1=O)C2=CC=C(O)C=C2)NC1=C/N	impurity	DCTI-C-1234	(Z)-3-(aminomethylene)-6-(4-hydroxyphenyl)piperazine-2,5-dione	147103-93-3	Cefadroxil EP Impurity E; Cefprozil Monohydrate EP Impurity C	C11H11N3O3	233.23
548		Cefadroxil Dimer	O=C(C(N12)=C(C)CS[C@]2([H])[C@H](NC([C@H](NC(C(N34)=C(C)CS[C@]4([H])[C@H](NC([C@H](N)C5=CC=C(O)C=C5)=O)C3=O)=O)C6=CC=C(O)C=C6)=O)C1=O)O	impurity	DCTI-C-1979	(6R,7R)-7-((R)-2-((6R,7R)-7-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxamido)-2-(4-hydroxyphenyl)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	2378158-45-1	Cefadroxil USP related compound O.	C32H32N6O9S2	708.76
549		7-Ethoxycarbonyl 7-ADCA	O=C1N2C(C(O)=O)=C(C)CSC2C1NC(OCC)=O	impurity	DCTI-C-1235	7-((ethoxycarbonyl)amino)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C11H14N2O5S	286.3
550		Cefadroxil EP impurity B	O=C(C(N12)=C(C)CS[C@]2([H])[C@]([H])(N)C1=O)O	Impurity	DCTI-C-1711	(6R,7R)-7-amino-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	Cefadroxil impurity B	C8H10N2O3S	214.24
551		Methoxy cefadroxil	COCC(CS[C@@H](N12)[C@H](NC([C@H](N)C3=CC=C(O)C=C3)=O)C2=O)=C1C(O)=O	Impurity	DCTI-C-1343	(6R,7R)-7-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C17H19N3O6S	393.41
552		Cefadroxil related compound D	CC(CS[C@@]1([H])N2C([C@]1(NC([C@H](C3=CC=C(O)C=C3)N)=O)[H])=O)=C2C(O)=O	impurity	DCTI-C-1236	(6R,7R)-7-((S)-2-amino-2-(4-hydroxyphenyl)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C16H17N3O5S	363.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
553		N-Phenylglycyl delta-3 cefadroxil	OC(C=C1)=CC=C1[C@](NC([C@@](N)([H])C2=CC=C(O)C=C2)=O)([H])C(N[C@@]3([H])[C@](SC=C(C)C4C(O)=O)([H])N4C3=O)=O	impurity	DCTI-C-1237	(6R,7R)-7-((R)-2-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-2-(4-hydroxyphenyl)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-3-ene-2-carboxylic acid	NA	NA	C24H24N4O7S	512.54
554		Cefadroxil EP impurity A	O=C(O)[C@H](N)C1=CC=C(O)C=C1	Impurity	DCTI-C-1466	(R)-2-amino-2-(4-hydroxyphenyl)acetic acid.	22818-40-2	Cefadroxil impurity A; Amoxicillin EP Impurity A	C8H9NO3	167.16
555		Cefadroxil impurity-H	O=C1N2C(C(O)=O)=C(C)CS[C@@H]2[C@@H]1NC(C(C)(C)C)=O	impurity	DCTI-C-1320	(6R,7R)-3-methyl-8-oxo-7-pivalamido-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	146794-70-9	7-ADCA Pivalamide	C13H18N2O4S	298.36
556		ETHYL CEFADROXIL HOMOLOG	O=C1C(NC(C(N)C2=CC=C(O)C=C2)=O)C3SCC(CC)=C(C(O)=O)N31	impurity	DCTI-C-1321	7-(2-amino-2-(4-hydroxyphenyl)acetamido)-3-ethyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C17H19N3O5S	377.41
557		N-Phenylglycyl cefadroxil	OC(C=C1)=CC=C1[C@](NC([C@@](N)([H])C2=CC=C(O)C=C2)=O)([H])C(N[C@@]3([H])[C@](SCC(C)=C4C(O)=O)([H])N4C3=O)=O.OC(C(F)(F)F)=O	impurity	DCTI-C-1220	(6R,7R)-7-((R)-2-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-2-(4-hydroxyphenyl)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid--2,2,2-trifluoroacetic acid (1/1)	147103-95-5 (trifluoroacetic acid free)	NA	C26H25F3N4O9S (TFA Salt) C24H24N4O7S (Free base)	626.56 (TFA Salt) 512.54 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
558	Cefazolin	7-aminocephalosporanic acid	O=C(C(N12)=C(COC(C)=O)CS[C@]2([H])[C@H](N)C1=O)O	Impurity	DCTI-C-1467	(6R,7R)-3-[(Acetyloxy)methyl]-7-amino-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	957-68-6	7β-Aminocephalosporanic Acid; 7-ACS; 3-(Acetoxymethyl)-7-aminocephem-4-carboxylic Acid	C10H12N2O5S	272
559		Cefazolin EP impurity A	O=C(C(N12)=C(CSC3=NN=C(C)S3)CS[C@]2([H])[C@H](N)C1=O)O	impurity	DCTI-C-1754	(6R,7R)-7-amino-3-(((5-methyl-1,3,4-thiadiazol-2-yl)thio)methyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	30246-33-4	Cefazolin impurity A	C11H12N4O3S3	344.42
560		Cefazolin EP Impurity-K	O=C1N2C(C(N)=O)=C(CSC3=NN=C(C)S3)CS[C@@H]2[C@@H]1NC(CN4N=NN=C4)=O	Impurity	DCTI-C-1767	(6R,7R)-7-(2-(1H-tetrazol-1-yl)acetamido)-3-(((5-methyl-1,3,4-thiadiazol-2-yl)thio)methyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxamide	NA	Cefazolin Amide; Cefazolinamide	C14H15N9O3S3	453.52
561		Tetrazolyl Acetamide Acetal	O=C(NCC(O)O)CN1C=NN=N1	impurity	DCTI-C-1389	N-(2,2-dihydroxyethyl)-2-(1H-tetrazol-1-yl)acetamide	1675245-47-2	NA	C5H9N5O3	187.16
562		Cefazolin 3-hydroxy methyl Impurity	O=C1N2C(C([O-])=O)=C(CO)CS[C@@H]2[C@@H]1NC(CN3N=NN=C3)=O.CCCC[N+](CCCC)(CCCC)CCCC	Impurity	DCTI-C-1470	Tetrabutylammonium (6R,7R)-7-(2-(1H-tetrazol-1-yl) acetamido)-3-(hydroxymethyl)-8-oxo-5-thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylate	NA	NA	C11H12N6O5S (Free Base) C27H47N7O5S (Tetra butyl ammonium Salt)	340.3 (Free Base) 581.7 (Tetra butyl ammonium Salt)
563		3-methyl cefdinir	O=C1N2C(C(O)=O)=C(CS[C@@H]2[C@@H]1NC(/C(c3csc(N)n3)=N\O)=O)C	Impurity	DCTI-C-695	(6R,7R)-7-((Z)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	71091-93-5	NA	C13H13N5O5S2	383.4

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
564	Cefdinir	Cefdinir Sulfoxide	O=C1N2C(C(O)=O)=C(C[S@](=O)[C@@H]2[C@@H]1NC(/C(C3[N]C(N)SC3)=N\O)=O)C=C	Impurity	DCTI-C-696	(5R,6R,7R)-7-((Z)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 5-oxide	NA	NA	C14H13N5O6S2	411.41
565		E-Cefdinir	O=C1N2C(C(O)=O)=C(CS[C@]2([H])[C@@H]1NC(/C(C3=CSC(N)=N3)=N/O)=O)C=C	Impurity	DCTI-C-697	(6R,7R)-7-((E)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	91832-39-2 (with salt)	NA	C14H13N5O5S2	395.41
566		(E)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)-N-((5-methyl-7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)methyl)acetamide	O/N=C(C(NCC1SCC(C(C)OC2=O)=C2N1)=O)\C3=CSC(N)=N3	Impurity	DCTI-C-741	(E)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)-N-((5-methyl-7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)methyl)acetamide	(free base) 178949-04-7	NA	C13H15N5O4S2	369.41
567		E-Cefdinir Lactone	O/N=C(C(NC(C(O)=O)C1SCC(C(C)OC2=O)=C2N1)=O)\C3=CSC(N)=N3	Impurity	DCTI-C-742	(E)-2-(2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetamido)-2-(5-methyl-7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)acetic acid	(free acid) 178422-42-9	NA	C14H15N5O6S2	413.42
568		Cefdinir Dimer	NC1=NC(/C(C(N[C@@H]2C(N3[C@]2([H])SCC(C=C)=C3C(N[C@@H]4C(N5[C@]4([H])SCC(C=C)=C5C(O)=O)=O)=O)=O)=O)=N/O)=CS1	Impurity	DCTI-C-743	(6R,7R)-7-((6R,7R)-7-((Z)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C23H21N7O7S3	603.64

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
569		Cefdinir Glyoxalic Analog	NC1=NC(C(C(N[C@@H]2C(N3[C@]2([H])SCC(C=C)=C3C(O)=O)=O)=O)=O)=CS1	Impurity	DCTI-C-744	(6R,7R)-7-(2-(2-aminothiazol-4-yl)-2-oxoacetamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	79350-14-4	NA	C14H12N4O5S2	380.39
570		Thiazolyl acetyl glycine oxime acetal	OC(O)CNC(/C(C1=CSC(N)=N1)=N\O)=O	impurity	DCTI-C-1407	(Z)-2-(2-aminothiazol-4-yl)-N-(2,2-dihydroxyethyl)-2-(hydroxyimino)acetamide	178422-40-7	NA	C7H10N4O4S	246.24
571		Cefdinir Decarboxy Open Ring Lactone Impurity A & B	O=C(/C(C1=CSC(N)=N1)=N\O)NCC2SCC(C(C)OC3=O)=C3N2	Impurity	DCTI-C-774	(Z)-2-(2-aminothiazol-4-yl)-2-(hydroxyimino)-N-((5-methyl-7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)methyl)acetamide	NA	NA	C13H15N5O4S2	369.41
572		Thiazolyl Acetyl Glycine Oxime	O=C(O)CNC(/C(C1=CSC(N)=N1)=N\O)=O	impurity	DCTI-C-1292	(Z)-(2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetyl)glycine	178949-03-6	NA	C7H8N4O4S	244.23
573		Cefdinir related compound A (Cefdinir open ring lactone a,b,c and d)	NC1=NC(/C(C(NC(C(O)=O)C2SCC(C(C)OC3=O)=C3N2)=O)=N/O)=CS1	Impurity	DCTI-C-775	(Z)-2-(2-(2-aminothiazol-4-yl)-2-(hydroxyimino)acetamido)-2-(5-methyl-7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)acetic acid	NA	NA	C14H15N5O6S2	413.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
574		Cefdinir Isoxazole Analog	O=C(C1=NOC=C1O)N[C@@H]2C(N3[C@@H]2SCC(C=C)=C3C(O)=O)=O	impurity	DCTI-C-1120	(6R,7R)-7-(4-hydroxyisoxazole-3-carboxamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	1356842-10-8	NA	C13H11N3O6S	337.31
575	**Cefixime**	Cefixime Impurity-A	OC(CO/N=C(C(NC(C(O)=O)C1SCC(C(C)OC2=O)=C2N1)=O)/C3=CSC(N)=N3)=O	impurity	DCTI-C-2216	(Z)-2-(2-(2-aminothiazol-4-yl)-2-((carboxymethoxy)imino)acetamido)-2-(5-methyl-7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)acetic acid.	NA	α-[[(2Z)-2-(2-Amino-4-thiazolyl)-2-[(carboxymethoxy)imino]acetyl]amino]-1,2,5,7-tetrahydro-5-methyl-7-oxo-4H-furo[3,4-d][1,3]thiazine-2-acetic acid.	C16H17N5O8S2	471.46
576		Cefixime EP Impurity F	CCOC(CO/N=C(C(N[C@@H]([C@@H]1N2C(C(O)=O)=C(C=C)CS1)C2=O)=O)/C3=CSC(N)=N3)=O	Impurity	DCTI-C-104	(6R,7R)-7-((Z)-2-(2-aminothiazol-4-yl)-2-((2-ethoxy-2-oxoethoxy)imino)acetamido)-8-oxo-3-vinyl-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	79368-95-9	Cefixime Ethyl Ester	C18H19N5O7S2	481.5
577	**CEPHALEXIN**	Chloro Cephalexin Impurity	O=C1N2C(C(O)=O)=C(C)CS[C@@H]2[C@@H]1NC([C@H](N)C3=CC=C(Cl)C=C3)=O.OC(C(F)(F)F)=O	Impurity	DCTI-C-3772	(6R,7R)-7-((R)-2-amino-2-(4-chlorophenyl)acetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid--2,2,2-trifluoroacetic acid (1/1)	NA	Chloro Cephalexin Trifluoro acetic acid	C18H17ClF3N3O6S (TFA salt) C16H16ClN3O4S (free base)	495.85 (TFA salt) 381.83 (free base)
578	**Cefalotin**	Methoxy Cefalotin Impurity	O=C(C(N12)=C(COC(C)=O)CS[C@]2([H])[C@@](NC(CC3=CC=CS3)=O)(OC)C1=O)O	impurity	DCTI-C-1696	(6R,7S)-3-(acetoxymethyl)-7-methoxy-8-oxo-7-(2-(thiophen-2-yl)acetamido)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	35565-06-1	7α-Methoxycephalothin; Methoxy Cefoxitin; Cefoxitin Impurity 5	C17H18N2O7S2	426.46
579		Cefalotin lactone	O=C(N[C@@H]([C@@]1([H])SCC2=C(C(OC2)=O)N13)C3=O)CC4=CC=CS4	impurity	DCTI-C-1468	N-((5aR,6R)-1,7-dioxo-1,4,5a,6-tetrahydro-3H,7H-azeto[2,1-b]furo[3,4-d][1,3]thiazin-6-yl)-2-(thiophen-2-yl)acetamide	10590-10-0	Cefoxitin EP Impurity C	C14H12N2O4S2	336.38 (free base)

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580	Cefoxitin	Descarbamoyloxy Cefoxitin	O=C1N2C(C(O)=O)=C(C)CS[C@@H]2[C@@]1(NC(CC3=CC=CS3)=O)OC	Impurity	DCTI-C-1721	(6R,7S)-7-methoxy-3-methyl-8-oxo-7-(2-(thiophen-2-yl)acetamido)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C15H16N2O5S2	368.42
581		Cefoxitin Delactam Lactone (Mixture Of Diastereomers)	O=C1C(N2)=C(CO1)CSC2([H])C(NC(CC3=CC=CS3)=O)(OC)C(O)=O	Impurity	DCTI-C-1722	2-methoxy-2-(7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)-2-(2-(thiophen-2-yl) acetamido)acetic acid	NA	Cefoxitin delactam lactone 1 & 2	C15H16N2O6S2	384.42
582		Cefoxitin delactam amide lactone (mixture of diastereomers)	O=C1C(N2)=C(CO1)CSC2([H])C(NC(CC3=CC=CS3)=O)(OC)C(N)=O	Impurity	DCTI-C-1723	2-methoxy-2-(7-oxo-1,2,5,7-tetrahydro-4H-furo[3,4-d][1,3]thiazin-2-yl)-2-(2-(thiophen-2-yl)acetamido)acetamide	NA	Cefoxitin delactam amide lactone 1 & 2	C15H17N3O5S2	383.44
583		Desmethoxy cefoxitin	OC(C1=C(COC(N)=O)CS[C@@]2([H])N1C([C@@]2([H])NC(CC3=CC=CS3)=O)=O)=O	Impurity	DCTI-C-1725	(6R,7R)-3-((carbamoyloxy)methyl)-8-oxo-7-(2-(thiophen-2-yl)acetamido)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	Desmethoxy cefoxitin, Cefoxitin Impurity H	C15H15N3O6S2	397.42
584		Methoxy Cefoxitin 1& 2	NC(OCC1=C(C(O)=O)N2C([C@](NC([C@@H](OC)C3=CC=CS3)=O)(OC)[C@@]2([H])SC1)=O)=O	Impurity	DCTI-C-1726	(6R,7S)-3-((carbamoyloxy)methyl)-7-methoxy-7-((R)-2-methoxy-2-(thiophen-2-yl)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	NA	C17H19N3O8S2	457.47
585		Cefoxitin Lactone	O=C1C(N23)=C(CO1)CS[C@]2([H])[C@@](NC(CC4=CC=CS4)=O)(OC)C3=O	impurity	DCTI-C-1469	N-((5aR,6S)-6-methoxy-1,7-dioxo-1,4,5a,6-tetrahydro-3H,7H-azeto[2,1-b]furo[3,4-d][1,3]thiazin-6-yl)-2-(thiophen-2-yl)acetamide	1422023-33-3	Cefoxitin EP Impurity D	C15H14N2O5S2	366.4

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
586	Cefprozil	Cefprozil Dimer	O=C(C(N12)=C(/C=C\C)CS[C@]2([H])[C@H](NC([C@H](NC(C(N34)=C(/C=C\C)CS[C@]4([H])[C@H](NC([C@H](N)C5=CC=C(O)C=C5)=O)C3=O)=O)C6=CC=C(O)C=C6)=O)C1=O)O	Impurity	DCTI-C-1339	: (6R,7R)-7-((R)-2-((6R,7R)-7-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-8-oxo-3-((Z)-prop-1-en-1-yl)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxamido)-2-(4-hydroxy phenyl)acetamido)-8-oxo-3-((Z)-prop-1-en-1-yl)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carbo xylic acid	NA	NA	C36H36N6O9S2	760.83
587		Cefprozil delta-3 Isomer	O=C(C(C(/C=C\C)=CS[C@]1([H])[C@@H]2NC([C@H](N)C3=CC=C(O)C=C3)=O)N1C2=O)O	Impurity	DCTI-C-1340	(6R,7R)-7-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-8-oxo-3-((Z)-prop-1-en-1-yl)-5-thia-1-azabicyclo[4.2.0]oct-3-ene-2-carboxylic acid	1000980-59-5	NA	C18H19N3O5S	389.43
588		Cefprozil Amide	O=C(O)[C@H](NC(C(N12)=C(/C=C\C)CS[C@]2([H])[C@H](NC([C@H](N)C3=CC=C(O)C=C3)=O)C1=O)=O)C4=CC=C(O)C=C4	Impurity	DCTI-C-1338	(R)-2-((6R,7R)-7-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-8-oxo-3-((Z)-prop-1-en-1-yl)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxamido)-2-(4-hydroxy phenyl) acetic acid	NA	NA	C26H26N4O7S	538.57
589		Cefprozil EP Impurity H	O=C1N2C(C(O)=O)=C(CS[C@@H]2[C@@H]1NC([C@H](NC([C@@H](C3=CC=C(O)C=C3)N)=O)C4=CC=C(C=C4)O)=O)/C=C\C	Impurity	DCTI-C-1342	(6R,7R)-7-((R)-2-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-2-(4-hydroxyphenyl)acetamido)-8-oxo-3-((Z)-prop-1-en-1-yl)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	NA	Cefprozil Impurity H	C26H26N4O7S	538.58
590		Cefprozil Related compound D	OC(C1=C(/C=C\C)CS[C@@]([C@@H]2N)([H])N1C2=O)=O.Cl	Impurity	DCTI-C-3144	(6R,7R)-7-amino-8-oxo-3-((Z)-prop-1-en-1-yl)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid	106447-44-3 (Free base)	Cefprozil EP Impurity D; Cefprozil Monohydrate EP Impurity D; Cefprozil USP Related compound D (Z-isomer)	C10H12N2O3S (Free base); C10H13ClN2O3S (HCl Salt)	240.28 (Free Base); 276.74 (HCl Salt)

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591	Cefuroxime	Cefuroxime axetil dimer	O=C1C(NC(/C(C2=CC=CO2)=N/OC)=O)C3N1C(C(OC(C)OC(C)OC(C(N4C5=O)=C(CSC4C5NC(/C(C6=CC=CO6)=N/OC)=O)COC(N)=O)=O)=O)=C(COC(N)=O)CS3	Impurity	DCTI-C-807	oxybis(ethane-1,1-diyl) bis(3-((carbamoyloxy)methyl)-7-((E)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate)	NA	NA	C36H38N8O17S2	918.86
592		Cefuroxime axetil Delta-3 Isomers	O=C(C(C(COC(N)=O)=CS[C@]1([H])[C@@H]2NC(/C(C3=CC=CO3)=N\OC)=O)N1C2=O)OC(OC(C)=O)C	impurity	DCTI-C-1384	1-acetoxyethyl (6R,7R)-3-((carbamoyloxy)methyl)-7-((Z)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-3-ene-2-carboxylate	NA	Δ2-Cefuroxime axetil; Cefuroxime Axetil EP Impurity A	C20H22N4O10S	510.47
593		Cefuroxime axetil Sulfoxide Diastereoisomer-B	O=C1[C@@H](NC(/C(C2=CC=CO2)=N\OC)=O)[C@]3([H])N1C(C(OC(OC(C)=O)C)=O)=C(COC(N)=O)CS3=O	Impurity	DCTI-C-2781	1-acetoxyethyl (6R,7R)-3-((carbamoyloxy)methyl)-7-((Z)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate 5-oxide	136235-54-6 (For Racemic Mixture)	NA	C20H22N4O11S	526.47
594		Cefuroxime axetil Sulfoxide Diastereoisomer-A	O=C1[C@@H](NC(/C(C2=CC=CO2)=N\OC)=O)[C@]3([H])N1C(C(OC(OC(C)=O)C)=O)=C(COC(N)=O)CS3=O	Impurity	DCTI-C-2780	1-acetoxyethyl (6R,7R)-3-((carbamoyloxy)methyl)-7-((Z)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate 5-oxide	136235-54-6 (For Racemic Mixture)	NA	C20H22N4O11S	526.47
595		Cefuroxime axetildiastereoisomers-B	O=C(C(N12)=C(COC(N)=O)CS[C@]2([H])[C@H](NC(/C(C3=CC=CO3)=N\OC)=O)C1=O)O[C@@H](OC(C)=O)C	Impurity	DCTI-C-3654	(R)-1-acetoxyethyl (6R,7R)-3-((carbamoyloxy)methyl)-7-((Z)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate	64599-28-6	(1′R,6R,7R)-CEFUROXIME AXETIL	C20H22N4O10S	510.47
596		Cefuroxime axetildiastereoisomers-A	O=C(C(N12)=C(COC(N)=O)CS[C@]2([H])[C@H](NC(/C(C3=CC=CO3)=N\OC)=O)C1=O)O[C@H](OC(C)=O)C	Impurity	DCTI-C-3655	(S)-1-acetoxyethyl (6R,7R)-3-((carbamoyloxy)methyl)-7-((Z)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate	64599-29-7	(1′S,6R,7R)-CEFUROXIME AXETIL	C20H22N4O10S	510.47
597	Celecoxib	Celecoxib Hydroxy impurity	O=S(C1=CC=C(N2N=C(C3=CC=C(C)C=C3)CC2(O)C(F)(F)F)C=C1)(N)=O	impurity	DCTI-C-2205	4-(5-hydroxy-3-(p-tolyl)-5-(trifluoromethyl)-4,5-dihydro-1H-pyrazol-1-yl)benzenesulfonamide.	NA	Celecoxib Impurity 4.	C17H16F3N3O3S	399.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
598		4-(5-(4-(hydroperoxymethyl)phenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)benzenesulfonamide	FC(F)(F)C1=NN(C2=CC=C(S(=O)(N)=O)C=C2)C(C3=CC=C(COO)C=C3)=C1	Impurity	DCTI-C-894	4-(5-(4-(hydroperoxymethyl)phenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)benzenesulfonamide	2247197-65-3	Celecoxib hydroperoxide impurity	C17H14F3N3O4S	413.37
599	**Ceritinib**	1-chloro-5-isopropoxy-2-methyl-3-nitrobenzene	CC1=C(Cl)C=C(OC(C)C)C=C1[N+]([O-])=O	Impurity	DCTI-C-670	1-chloro-5-isopropoxy-2-methyl-3-nitrobenzene	NA	NA	C10H12ClNO3	229.66
600	**Cetirizine**	1-(4-chloro-benzhydryl)-4-nitrosopiperazine	O=NN1CCN(C(C2=CC=C(C=C2)Cl)C3=CC=CC=C3)CC1	NDSRI	DCTI-C-3132	1-(4-chloro-benzhydryl)-4-nitrosopiperazine	01-04-2005	N-Nitroso Hydroxyzine EP impurity A ; Cetirizine intermediate nitroso impurity	C17H18ClN3O	315.8
601	**Cibenzoline**	(R)-(+)-Cibenzoline succinate	OC(CCC(O)=O)=O.C1([C@H]2C(C3=CC=CC=C3)(C4=CC=CC=C4)C2)=NCCN1	impurity	DCTI-C-1980	(R)-2-(2,2-diphenylcyclopropyl)-4,5-dihydro-1H-imidazole succinate	2487414-96-8	Cibenzoline Isomer-1	C18H18N2 (Free base) C22H24N2O4 (Succinate salt)	262.36 (Free base) 380.44 (Succinate salt)
602		(S)-(-)-Cibenzoline succinate	OC(CCC(O)=O)=O.C1([C@@H]2C(C3=CC=CC=C3)(C4=CC=CC=C4)C2)=NCCN1	impurity	DCTI-C-1981	(S)-2-(2,2-diphenylcyclopropyl)-4,5-dihydro-1H-imidazole succinate	2414472-87-8	Cibenzoline Isomer-2	C18H18N2 (Free base) C22H24N2O4 (Succinate salt)	262.36 (Free base) 380.44 (Succinate salt)
603	**Cinacalcet**	Cinacalcet Diastereomer-1 (Hydrochloride Salt)	C[C@H](C1=C(C=CC=C2)C2=CC=C1)NC[C@@H](C)C3=CC=CC(C(F)(F)F)=C3.Cl	IMPURITY	DCTI-C-2485	(S)-N-((R)-1-(naphthalen-1-yl)ethyl)-2-(3-(trifluoromethyl)phenyl)propan-1-amine hydrochloride	2059891-96-0 (Freebase)	Cinacalcet Diastereomer Isomer-1	Free base: C22H22F3N ; HCl Salt: C22H23ClF3N	Free base: 357.42 ; HCl Salt: 393.88

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604		Cinacalcet Diastereomer-2 (Hydrochloride Salt)	C[C@H](C1=C(C=CC=C2)C2=CC=C1)NC[C@H](C)C3=CC=CC(C(F)(F)F)=C3.Cl	IMPURITY	DCTI-C-2486	(R)-N-((R)-1-(naphthalen-1-yl)ethyl)-2-(3-(trifluoromethyl)phenyl)propan-1-amine hydrochloride	2059891-97-1(Freebase)	Cinacalcet Diastereomer Isomer-2	Free base: C22H22F3N ; HCl Salt: C22H23ClF3N	Free base: 357.42 ; HCl Salt: 393.88
605	**Cisdoxepin**	N-Nitroso-Desmethyl-Cidoxepin	CN(N=O)CC/C=C1C2=C(C=CC=C2)OCC3=C\1C=CC=C3	NDSRI	DCTI-C-3421	(Z)-N-(3-(dibenzo[b,e]oxepin-11(6H)-ylidene)propyl)-N-methylnitrous amide	NA	N-Nitroso-Desmethyl-Cidoxepin(Mixer of isomers)	C18H18N2O2	294.35
606		Cisatracurium EP impurity-C	CN1[C@H](CC2=CC=C(OC)C(OC)=C2)C3=C(CC1)C=C(C(OC)=C3)OC	impurity	DCTI-C-1268	(R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline	85-63-2	(-)-Laudanosine; (R)-Laudanosine; D-(-)-Laudanosine; D-Laudanosine; O-Methyllaudanidine; R-(-)-Laudanosine	C21H27NO4	357.45
607		Cisatracurium EP impurity-D	C[N@@+]1(CCC(OC)=O)[C@H](CC2=CC=C(OC)C(OC)=C2)C3=C(CC1)C=C(C(OC)=C3)OC.[O-]S(=O)(C4=CC=CC=C4)=O	impurity	DCTI-C-1269	(1R,2R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-(3-methoxy-3-oxopropyl)-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	1075726-88-3	Cisatracurium Besylate EP Impurity A	C31H39NO9S (Salt) C25H34NO6 (Free base)	601.71 (Salt) 444.55 (Free base)
608		Cisatracurium Besylate EP Impurity-Q	C[N@+]([C@@H]1CC2=CC(OC)=C(OC)C=C2)(CCC(OCCCCCOC(CCN3CCC(C=C(OC)C(OC)=C4)=C4[C@H]3CC5=CC=C(OC)C(OC)=C5)=O)=O)CCC6=C1C=C(OC)C(OC)=C6.O=S(C7=CC=CC=C7)([O-])=O	impurity	DCTI-C-2256	(1R,2R)-1-(3,4-dimethoxybenzyl)-2-(3-((5-((3-((R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-3,4-dihydroisoquinolin-2(1H)-yl)propanoyl)oxy)pentyl)oxy)-3-oxopropyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	NA	Atracurium EP impurity A2; cis-Monoquaternary cisatracurium	C52H69N2O12 (free base) C58H74N2O15S (Sait)	914.13 (free base) 1071.29 (Salt)
609		Cisatracurium EP Impurity-O	O=S(C1=CC=CC=C1)([O-])=O.COC2=CC(CC[N@+]3(C)CCC(OCCCCCOC(C=C)=O)=O)=C([C@H]3CC4=CC=C(OC)C(OC)=C4)C=C2OC	impurity	DCTI-C-2257	(1R,2R)-2-(3-((5-(acryloyloxy)pentyl)oxy)-3-oxopropyl)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	NA	Cis-Monoacrylate Cisatracurium; (1R,2R)-2-(3,11-Dioxo-4,10-dioxo-12-tridecenyl)-(1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-1-veratrylisoquinolinium.	C32H44NO8 (free base) C38H49NO11S (salt)	570.70 (free base) 727.87 (salt)

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610	Cisatracurium	Cisatracurium EP impurity-E	COC(C(OC)=C1)=CC2=C1CC[N@+](CCC(OCCCCCO)=O)(C)[C@@H]2CC3=CC=C(OC)C(OC)=C3.O=S(C4=CC=CC=C4)([O-])=O	impurity	DCTI-C-1270	(1R,2S)-1-(3,4-dimethoxybenzyl)-2-(3-((5-hydroxypentyl)oxy)-3-oxopropyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	155913-35-2	NA	C35H47NO10S (Salt) C29H42NO7 (Free base)	673.82 (Salt) 516.65 (Free base)
611		Cisatracurium EP impurity-F	COC(C(OC)=C1)=CC2=C1CC[N@@+](CCC(OCCCCCO)=O)(C)[C@@H]2CC3=CC=C(OC)C(OC)=C3.O=S(C4=CC=CC=C4)([O-])=O	impurity	DCTI-C-1271	(1R,2R)-1-(3,4-dimethoxybenzyl)-2-(3-((5-hydroxypentyl)oxy)-3-oxopropyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	1100676-16-1	NA	C35H47NO10S (Salt) C29H42NO7(Free base)	673.82 (Salt) 516.65 (Free base)
612		Cisatracurium EP impurity-N	COC(C(OC)=C1)=CC2=C1CC[N@+](CCC(OCCCCCOC(C=C)=O)=O)(C)[C@@H]2CC3=CC=C(OC)C(OC)=C3.O=S(C4=CC=CC=C4)([O-])=O	impurity	DCTI-C-1272	(1R,2S)-2-(3-((5-(acryloyloxy)pentyl)oxy)-3-oxopropyl)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	NA	NA	C38H49NO11S (Salt) C32H44NO8 (Free base)	727.87 (Salt) 570.70 (Free base)
613		Cisatracurium EP impurity-A	C[N@@+]1(CCC(O)=O)[C@H](CC2=CC=C(OC)C(OC)=C2)C3=C(CC1)C=C(C(OC)=C3)OC.[O-]S(=O)(C4=CC=CC=C4)=O	impurity	DCTI-C-1293	(1R,2R)-2-(2-carboxyethyl)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	1075727-06-8	Cisatracurium Besylate EP Impurity A	C30H37NO9S (Salt) C24H32NO6 (Free base)	587.68 (Salt) 430.52 (Free base)
614		Cisatracurium EP impurity-B	C[N+]1(C)[C@H](CC2=CC=C(OC)C(OC)=C2)C3=C(CC1)C=C(C(OC)=C3)OC.[I-]	impurity	DCTI-C-1294	(R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2,2-dimethyl-1,2,3,4-tetrahydroisoquinolin-2-ium iodide	41431-32-7	(±)-Laudanosine methiodide; (±)-N-Methyllaudanosinium iodide; D-(-)-Laudanosine methiodide	C22H30NO4I (Salt) C22H30NO4 (Free base)	499.39 (Salt) 372.48 (Free base)

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615		Cisatracurium EP impurity-R	O=C(CCN1CCC(C=C(OC)C(OC)=C2)=C2[C@H]1CC3=CC(OC)=C(OC)C=C3)OCCCCCOC(CCN4CCC5=CC(OC)=C(OC)C=C5[C@H]4CC6=CC=C(OC)C(OC)=C6)=O.OC(C(O)=O)=O.OC(C(O)=O)=O	impurity	DCTI-C-1273	pentane-1,5-diyl bis(3-((R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-3,4-dihydroisoquinolin-2(1H)-yl)propanoate) dioxalate	NA	Cisatracurium Besylate EP Impurity R	C55H70N2O20 (Salt) C51H66N2O12 (Free base)	1079.16 (Salt) 899.09 (Free base)
616		Cisatracurium EP impurity-W	CC(OCCCCCOC(CC[N@@+]1(C)CCC2=CC(OC)=C(OC)C=C2[C@H]1CC3=CC=C(OC)C(OC)=C3)=O)=O.[O-]S(C4=CC=CC=C4)(=O)=O	impurity	DCTI-C-1274	(1R,2R)-2-(3-((5-acetoxypentyl)oxy)-3-oxopropyl)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	NA	NA	C37H49NO11S (Salt) C31H44NO8 (Free base)	715.85 (Salt) 558.69 (Free base)
617		CIS-CE-RLAUDANOSINE BESYLATE Cp 93242	COC1=CC(C[C@@H]2C3=C(C=C(OC)C(OC)=C3)CC[N@+]2(C)CCC(O)=O)=CC=C1OC.O=S(C4=CC=CC=C4)([O-])=O	Impurity	DCTI-C-533	(1R,2R)-2-(2-carboxyethyl)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	1075727-06-8	NA	C30H37NO9S	587.68
618		CIS HPOCE-R-LAUDA Trifluoroacetate	COC(C=C1)=C(OC)C=C1C[C@H]2[N@+](CCC(OCCCCCO)=O)(C)CCC3=CC(OC)=C(OC)C=C32.[O-]C(C(F)(F)F)=O	Impurity	DCTI-C-655	(1R,2R)-1-(3,4-dimethoxybenzyl)-2-(3-((5-hydroxypentyl)oxy)-3-oxopropyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium 2,2,2-trifluoroacetate	NA	NA	C31H42F3NO9 (Salt) C29H42NO7 (Free base)	629.67 (Salt) 516.65 (Free base)
619		Cisatracurium Besylate EP Impurity-P	S(=O)(=O)([O-])C1=CC=CC=C1.C([C@@H]1C=2C(=CC(OC)=C(OC)C2)CC[N@+]1(CCC(OCCCCCOC(CCN3[C@H](CC4=CC(OC)=C(OC)C=C4)C=5C(CC3)=CC(OC)=C(OC)C5)=O)=O)C)C6=CC(OC)=C(OC)C=C6	Impurity	DCTI-C-2797	(1R,2S)-1-(3,4-dimethoxybenzyl)-2-(3-((5-((3-((R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-3,4-dihydroisoquinolin-2(1H)-yl)propanoyl)oxy)pentyl)oxy)-3-oxopropyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	2024603-92-5	Trans monoquaternary compound	C58H74N2O15S (salt)	1071.29 (salt)

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620		Cisatracurium EP Impurity B Besylate Salt	COC1=C(OC)C=C2C(CC[N+](C)(C)[C@@H]2CC3=CC(OC)=C(OC)C=C3)=C1.O=S(C4=CC=CC=C4)([O-])=O	Impurity	DCTI-C-3789	(R)-1-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2,2-dimethyl-1,2,3,4-tetrahydroisoquinolin-2-ium benzenesulfonate	2480467-84-1	NA	C22H30NO4 (Free base) C28H35NO7S (Besylate salt)	372.48 (Free base) 529.65 (Besylate salt)
621	Citalopram	Desmethyl citalopram hydrochloride	N#CC1=CC2=C(C(CCCNC)(C3=CC=C(F)C=C3)OC2)C=C1.[H]Cl	metabolite	DCTI-C-899	1-(4-fluorophenyl)-1-(3-(methylamino)propyl)-1,3-dihydroisobenzofuran-5-carbonitrile hydrochloride	97743-99-2	Lu 11-109C	C19H19FN2O (Free Base) C19H20ClFN2O (Salt)	310.15 (Free Base) 346.12 (Salt)
622		4-(4-fluorobenzoyl)-3-(hydroxymethyl)benzonitrile	N#CC1=CC=C(C(C2=CC=C(F)C=C2)=O)C(CO)=C1	IMPURITY	DCTI-C-2749	4-(4-fluorobenzoyl)-3-(hydroxymethyl)benzonitrile	260371-16-2	NA	C15H10FNO2	255.25
623		N-Nitroso Citalopram	N#CC1=CC2=C(C(C3=CC=C(F)C=C3)(CCCN(N=O)C)OC2)C=C1	NDSRI	DCTI-C-3196	N-(3-(5-cyano-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-1-yl)propyl)-N-methylnitrous amide	NA	N-Nitroso Desmethyl citalopram	C19H18FN3O2	339.37
624		Citalopram N-oxide	N#CC1=CC2=C(C(C3=CC=C(F)C=C3)(CCC[N+](C)(C)[O-])OC2)C=C1	metabolite	DCTI-C-3195	1-[3-(Dimethyloxidoamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbonitrile	63284-72-0	Citalopram related compound E	C20H21FN2O2	340.4
625		4-(4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonitrile hydrobromide	N#CC1=CC=C(C(O)(C2=CC=C(F)C=C2)CCCN(C)C)C(CO)=C1.Br	Impurity	DCTI-C-3301	4-(4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonitrile hydrobromide	103146-26-5	Citadiol hydrobromide; Citalopram Impurity B	C20H23FN2O2 (free base);C20H24BrFN2O2 (salt)	342.41 (free base) 423.33(salt)
626		Citalopram Related Compound A	O=C(C1=CC2=C(C(C3=CC=C(F)C=C3)(CCCN(C)C)OC2)C=C1)N	Impurity	DCTI-C-3342	1-(3-(dimethylamino)propyl)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carboxamide	64372-56-1	Escitalopram EP Impurity A	C20H23FN2O2	342.41

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627	Cis-Hydrazide	Cis-Hydrazide	NNC([C@H]1C[C@H]1C2=CC=CC=C2)=O	Impurity	DCTI-C-1471	(1S,2R)-2-phenylcyclopropane-1-carbohydrazide-rel-	1932043-12-3	cis-2-Phenylcyclopropanecarbohydrazide; Tranylcypromine impurity	C10H12N2O	176.22
628		Trans-Hydrazide	NNC([C@@H]1C[C@H]1C2=CC=CC=C2)=O	Impurity	DCTI-C-1535	(1R,2R)-2-phenylcyclopropane-1-carbohydrazide-re-	NA	trans-2-phenylcyclopropanecarboxylic hydrazide; Tranylcypromine Impurity D	C10H12N2O	177.22
629	Chlorambucil	Chlorambucil EP Impurity E	O=C(OCCN(CCCl)C1=CC=C(CCCC(O)=O)C=C1)CCCC2=CC=C(N(CCCl)CCCl)C=C2	impurity	DCTI-C-2255	4-(4-(4-((2-((4-(4-(bis(2-chloroethyl)amino)phenyl)butanoyl)oxy)ethyl)(2-chloroethyl)amino)phenyl)butanoic acid	NA	Chlorambucil Dimer impurity	C28H37Cl3N2O4	571.96
630	Chloroquine	Chloroquine Phosphate impurity-1	ClC1=CC=C2C(OC3=CC=CC=C3)=CC=NC2=C1	impurity	DCTI-C-1024	7-chloro-4- phenoxyquinoline	124495-03-0	NA	C15H10ClNO	255.7
631		Chloroquine Phosphate Impurity E	CCN(CC)CCCC(C)NC1=CC=NC2=CC=CC(Cl)=C21.OC(C(O)=O)=O	IMPURITY	DCTI-C-2761	N4-(5-chloroquinolin-4-yl)-N1,N1-diethylpentane-1,4-diamine oxalate	2771193-15-6	CHLOROQUINE RELATED COMPOUND E	C18H26ClN3 (Free base)C20H28ClN3O4 (Oxalate Salt)	319.88 (Free base)409.91 (Oxalate Salt)
632		Chloroquine Phosphate Impurity G	CC(NC1=CC=NC2=CC(Cl)=CC=C12)CCC[N+](CC)([O-])CC.OS(=O)(O)=O	Impurity	DCTI-C-2861	4-((7-chloroquinolin-4-yl)amino)-N,N-diethylpentan-1-amine oxide sulfate	NA	Choloroquine N-Oxide sulfate salt	C18H28ClN3O5S (Sulphate Salt)C18H26ClN3O (Free Base)	433.95 (Sulphate Salt)335.88 (Free Base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
633	**Chlorpromazine**	Chlorpromazine Impurity - F	ClC1=CC=CC2=C1SC3=CC=CC=C3N2CCCN(C)C	Impurity	DCTI-C-090	3-(4-chloro-10H-phenothiazin-10-yl)-N,N-dimethylpropan-1-amine	13094-24-1	BA 21752	C17H19ClN2S	318.86
634	**Cholecalciferol**	Cholecalciferol EP Impurity-D	CC(C)CCC[C@@]([H])(C)[C@@]1([H])CCC2=C(CCC[C@@]21C)/C=C/C3=C(C)CC[C@@](O)([H])C3	Impurity	DCTI-C-348	(S)-4-methyl-3-((E)-2-((1R,7aR)-7a-methyl-1-((R)-6-methylheptan-2-yl)-2,3,5,6,7,7a-hexahydro-1H-inden-4-yl)vinyl)cyclohex-3-en-1-ol	22350-43-2	Isotachysterol3; Toxisterol3 D3	C27H44O	384.65
635		Cholecalciferol EP Impurity-B	O[C@@H]1CC2=CC=C3[C@]([C@]2(CC1)C)([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4([H])[C@@H](CCCC(C)C)C	Impurity	DCTI-C-349	(3S,9S,10R,13R,14R,17R)-10,13-dimethyl-17-((R)-6-methylheptan-2-yl)-2,3,4,9,10,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol	434-16-2	Cholesta-5,7-dien-3β-ol; 7,8-Didehydro cholesterol; 7-Dehydro cholesterin; Provitamin D3	C27H44O	384.65
636		Cholecalciferol EP Impurity A	CC(C)CCC[C@](C)([H])[C@@]1([H])CC[C@]2([H])[C@]1(C)CCC/C2=C\C=C3C(CC[C@@](O)([H])C\3)=C	Impurity	DCTI-C-372	(S,E)-3-(2-((1R,3aS,7aR,E)-7a-methyl-1-((R)-6-methylheptan-2-yl)octahydro-4H-inden-4-ylidene)ethylidene)-4-methylenecyclohexan-1-ol	22350-41-0	trans-Cholecalciferol; trans-Vitamin D3	C27H44O	384.65
637		Vitamin D3 Decanoate(Cholecalciferol)	C=C(CC1)/C(C[C@H]1OC(CCCCCCCCC)=O)=C\C=C2CCC[C@@]3(C)[C@H]/2CC[C@@H]3[C@@H](CCCC(C)C)C	Labelled	DCTI-C-2719	(S,Z)-3-(2-((1R,3aS,7aR,E)-7a-methyl-1-((R)-6-methylheptan-2-yl)octahydro-4H-inden-4-ylidene)ethylidene)-4-methylenecyclohexyl decanoate	158180-04-2	NA	C37H62O2	538.9
638		19-hydroxycholesterol	CC(C)CCC[C@@H](C)[C@H]1CC[C@@]2([H])[C@]3([H])CC=C4C[C@@H](O)CC[C@]4(CO)[C@@]3([H])CC[C@]12C	Metabolite	DCTI-C-3751	(3S,8S,9S,10S,13R,14S,17R)-10-(hydroxymethyl)-13-methyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-ol	561-63-7	1.(3beta)-cholest-5-ene-3,19-diol 2.5-Cholesten-3β,19-diol	C27H46O2	402.66

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639	cholesterol	7-beta-hydroxycholesterol	CC(C)CCC[C@@H](C)[C@H]1CC[C@@]2([H])[C@]3([H])[C@@H](O)C=C4C[C@@H](O)CC[C@]4(C)[C@@]3([H])CC[C@]12C	Metabolite	DCTI-C-3733	(3S,7R,8S,9S,10R,13R,14S,17R)-10,13-dimethyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-3,7-diol	566-27-8	1.5-Cholestene-3β,7β-diol 2.7β-Hydroxycholesterol 3.Cholest-5-en-3beta,7beta-diol	C27H46O2	402.66
640		7-Ketocholesterol	CC(C)CCC[C@@H](C)[C@H]1CC[C@@]2([H])[C@]3([H])C(C=C4C[C@@H](O)CC[C@]4(C)[C@@]3([H])CC[C@]12C)=O	Metabolite	DCTI-C-3732	(3S,8S,9S,10R,13R,14S,17R)-3-hydroxy-10,13-dimethyl-17-((R)-6-methylheptan-2-yl)-1,2,3,4,8,9,10,11,12,13,14,15,16,17-tetradecahydro-7H-cyclopenta[a]phenanthren-7-one	566-28-9	1.3-BETA-HYDROXYCHOLEST-5-EN-7-ONE 2.5-Cholesten-3β-ol-7-one 3.3β-hydroxy-5-cholestene-7-one	C27H44O2	400.65
641		4-beta-hydroxycholesterol	CC(C)CCC[C@@H](C)[C@H]1CC[C@@]2([H])[C@]3([H])CC=C4[C@@H](O)[C@@H](O)CC[C@]4(C)[C@@]3([H])CC[C@]12C	Metabolite	DCTI-C-3743	(3S,4R,8S,9S,10R,13R,14S,17R)-10,13-dimethyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-3,4-diol	17320-10-4	1.4β-Hydroxycholesterol 2.cholest-5-ene-3β,4β-diol	C27H46O2	402.66
642		4-Alpha-Hydroxycholesterol	CC(C)CCC[C@@H](C)[C@H]1CC[C@@]2([H])[C@]3([H])CC=C4[C@H](O)[C@@H](O)CC[C@]4(C)[C@@]3([H])CC[C@]12C	Metabolite	DCTI-C-3919	(3S,4S,8S,9S,10R,13R,14S,17R)-10,13-dimethyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-3,4-diol	34310-86-6	1.4α-Hydroxy Cholesterol 2.(3beta,4alpha)-Cholest-5-ene-3,4-diol 3.Cholesterol 4α-Hydroxy	C27H46O2	402.66
643	Ciprofloxacin	ethyl 7-chloro-4-oxo-1,4-dihydroquinoline-3-carboxylate	O=C1C(C(OCC)=O)=CNC2=CC(Cl)=CC=C21	Impurity	DCTI-C-350	ethyl 7-chloro-4-oxo-1,4-dihydroquinoline-3-carboxylate	54132-35-3	Ciprofloxacin Impurity	C12H10ClNO3	251.67
644	Cilastatin	Cilastatin EP impurity-E	OC(C(CCCCCSC[C@@H](C(O)=O)N)=O)=O.Cl	Impurity	DCTI-C-439	(R)-7-((2-amino-2-carboxyethyl)thio)-2-oxoheptanoic acid hydrogen chloride	1174657-07-8 (Free Base)	NA	C10H17NO5S (Free Base) C10H18ClNO5S (Salt)	263.31 (Free base) 299.77 (HCl salt)
645		Cilastatin EP impurity-F	OC(/C(NC(C(C(C)=C)C)=O)=C/CCCCSC[C@@H](C(O)=O)N)=O	Impurity	DCTI-C-462	(Z)-7-(((R)-2-amino-2-carboxyethyl)thio)-2-(2,3-dimethylbut-3-enamido)hept-2-enoic acid	NA	NA	C16H26N2O5S	358.45

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646		Isopropylidene Clindamycin Phosphate	CS[C@@H](O[C@@H]1[C@@H]([C@@H](Cl)C)NC([C@@H]2C[C@H](CN2C)CCC)=O)[C@H](OP(O)(O)=O)[C@@H]3[C@H]1OC(C)(C)O3	impurity	DCTI-C-1854	(3aS,4R,6R,7R,7aS)-4-((1S,2S)-2-chloro-1-((2S,4R)-1-methyl-4-propylpyrrolidine-2-carboxamido)propyl)-2,2-dimethyl-6-(methylthio)tetrahydro-4H-[1,3]dioxolo[4,5-c]pyran-7-yl dihydrogen phosphate	NA	NA	C21H38ClN2O8PS	545.02
647		Clindamycin impurity D	O=C([C@H]1N(C[C@@H](C1)CCC)C)N[C@H]([C@H](C)O)[C@H]2O[C@@H]([C@@H]([C@@H](O)[C@H]2O)O)SC	impurity	DCTI-C-1632	(2S,4R)-N-((1R,2S)-2-hydroxy-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(methylthio)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	17017-22-0	7- epilincomycin; (7S)-Lincomycin; Epilincomycin; Clindamycin EP impurity D; Lincomycin impurity D; Lincomycin EP impurity D	C18 H34 N2 O6 S	406.54
648		Clindamycin Imp C	C[C@@H](Cl)[C@H]([C@H]1O[C@@H]([C@@H]([C@H]([C@H]1O)O)O)SC)NC([C@H]2N(C[C@@H](C2)CCC)C)=O	impurity	DCTI-C-1983	(2S,4R)-N-((1S,2R)-2-chloro-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(methylthio)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	16684-06-3	7-epi Clindamycin; D-erythro-α-D-galacto-Octopyranoside, methyl 7-chloro-6,7,8-trideoxy-6-[[[(2S,4R)-1-methyl-4-propyl-2-pyrrolidinyl]carbonyl]amino]-1-thio-; Clindamycin EP impurity C	C18H33ClN2O5S	424.98
649		Clindamycin impurity E	O=C([C@H](C/1)N(C)CC1=C/CC)N[C@@H]([C@@H]2[C@H](O)[C@H](O)[C@@H](O)[C@@H](SC)O2)[C@@H](Cl)C	impurity	DCTI-C-1985	(S,Z)-N-((1S,2S)-2-chloro-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(methylthio)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylidenepyrrolidine-2-carboxamide	1440605-51-5	Clindamycin EP impurity E; Methyl (5R)-5-[(1S,2S)-2-chloro-1-[[(4Z)-1-methyl-4-propylidene-L-prolyl]amino]propyl]-1-thio-β-L-arabinopyranoside.	C18H31ClN2O5S	422.97
650	**Clindamycin**	Clindamycin Impurity F	O=C([C@@H]1N(C)C[C@H](CCC)C1)N[C@@H]([C@@H]2[C@H](O)[C@H](O)[C@@H](O)[C@@H](SC)O2)[C@@H](Cl)C	impurity	DCTI-C-1986	(2R,4R)-N-((1S,2S)-2-chloro-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(methylthio)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	NA	Clindamycin EP impurity F; Methyl 7-chloro-6,7,8-trideoxy-6-[[[(2R,4R)-1-methyl-4-propylpyrrolidin-2-yl]carbonyl]amino]-1-thio-L-threo-α-D-galacto-octopyranoside; Clindamycin (2R-Cis)-Diastereomer.	C18H33ClN2O5S	424.98

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651		Isopropyledine Clindamycin	O[C@@H]([C@H](O[C@@H]1[C@@H]([C@@H](Cl)C)NC([C@@H]2C[C@H](CN2C)CCC)=O)SC)[C@@H]3[C@H]1OC(C)(C)O3	Impurity	DCTI-C-1704	(2S,4R)-N-((1S,2S)-2-chloro-1-((3aS,4R,6R,7R,7aR)-7-hydroxy-2,2-dimethyl-6-(methylthio)tetrahydro-4H-[1,3]dioxolo[4,5-c]pyran-4-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	NA	Clindamycin Impurity	C21H37ClN2O5S	465.05
652		Clindamycin Sulfoxide Isomer A	C[C@@H]([C@@]([H])(NC([C@@H]1C[C@H](CN1C)CCC)=O)[C@@]([H])(O[C@@H]2[S@@](C)=O)[C@H](O)[C@@H]([C@H]2O)O)Cl	metabolite	DCTI-C-3233	(2S,4R)-N-((1S,2S)-2-chloro-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-((R)-methylsulfinyl)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	NA	NA	C18H33ClN2O6S	440.98
653		Clindamycin Phosphate Sulfoxide Isomer A	[H][C@@]1(O[C@@H]([C@@H]([C@H]([C@H]1O)O)OP(O)(O)=O)[S@@](C)=O)[C@]([H])(NC([C@@H]2C[C@H](CN2C)CCC)=O)[C@H](C)Cl	metabolite	DCTI-C-3232	(2R,3R,4S,5R,6R)-6-((1S,2S)-2-chloro-1-((2S,4R)-1-methyl-4-propylpyrrolidine-2-carboxamido)propyl)-4,5-dihydroxy-2-((R)-methylsulfinyl)tetrahydro-2H-pyran-3-yl dihydrogen phosphate	NA	NA	C18H34ClN2O9PS	520.96
654		Clindamycin Phosphate Sulfoxide Isomer B	[H][C@@]1(O[C@@H]([C@@H]([C@H]([C@H]1O)O)OP(O)(O)=O)[S@@](C)=O)[C@]([H])(NC([C@@H]2C[C@H](CN2C)CCC)=O)[C@H](C)Cl.O=C(O)C(F)(F)F	metabolite	DCTI-C-3257	(2R,3R,4S,5R,6R)-6-((1S,2S)-2-chloro-1-((2S,4R)-1-methyl-4-propylpyrrolidine-2-carboxamido)propyl)-4,5-dihydroxy-2-((R)-methylsulfinyl)tetrahydro-2H-pyran-3-yl dihydrogen phosphate	NA	Clindamycin Phosphate Sulfoxide Isomer B (TFA Salt)	C18H34ClN2O9PS (Free Base) C20H35ClF3N2O11PS (TFA Salt)	520.96 (Free base) 634.98 (TFA Salt)
655		Clindamycin Sulfoxide Isomer B	C[C@@H]([C@@]([H])(NC([C@@H]1C[C@H](CN1C)CCC)=O)[C@@]([H])(O[C@@H]2[S@@](C)=O)[C@H](O)[C@@H]([C@H]2O)O)Cl	metabolite	DCTI-C-3243	(2S,4R)-N-((1S,2S)-2-chloro-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-((R)-methylsulfinyl)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	NA	NA	C18H33ClN2O6S	440.98
656		Clevidipine butyrate Impurity CLE 04	CC(/C(C(OCOC(CCC)=O)=O)=C/C1=CC=CC(Cl)=C1Cl)=O	IMPURITY	DCTI-C-2775	(butyryloxy)methyl (Z)-2-(2,3-dichlorobenzylidene)-3-oxobutanoate	1346550-33-1	Butanoic acid, 2-[(2,3-dichlorophenyl)methylene]-3-oxo-, (1-oxobutoxy)methyl ester, (2Z)- (ACI)	C16H16Cl2O5	359.2

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657	Clevidipine	Clevidipine Dibutyryl Impurity	CCCC(OCOC(C1=C(NC(C)=C(C(OCOC(CCC)=O)=O)C1C2=CC=CC(Cl)=C2Cl)C)=O)=O	Impurity	DCTI-C-3292	bis((butyryloxy)methyl) 4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate	253597-19-2	Cleviprex Impurity C, Clevidipine Impurity 2, Clevidipine Butyrate Impurity II	C25H29Cl2NO8	542.41
658		Clevidipine Mono Acid impurity	ClC1=C(Cl)C(C2C(C(OC)=O)=C(C)NC(C)=C2C(O)=O)=CC=C1	Impurity	DCTI-C-3762	4-(2,3-dichlorophenyl)-5-(methoxycarbonyl)-2,6-dimethyl-1,4-dihydropyridine-3-carboxylic acid	123853-39-4	Clevidipine Impurity 1, Desethyl Felodipine	C16H15Cl2NO4	356.2
659		Clevidipine Pyridine impurity	CCCC(OCOC(C1=C(C2=CC=CC(Cl)=C2Cl)C(C(OC)=O)=C(C)N=C1C)=O)=O	Impurity	DCTI-C-3791	3-((butyryloxy)methyl) 5-methyl 4-(2,3-dichlorophenyl)-2,6-dimethylpyridine-3,5-dicarboxylate	188649-48-1	Clevidipine Butyrate impurity IV	C21H21Cl2NO6	454.3
660		Clevidipine Diacid Impurity	O=C(C1=C(C)NC(C)=C(C(O)=O)C1C2=CC=CC(Cl)=C2Cl)O	IMPURITY	DCTI-C-3247	4-(2,3-Dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylic acid	138279-32-0	Clevidipine Impurity 6	C15H13Cl2NO4	342.17
661	Clobetasol	Clobetasol EP Impurity A	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@H](C)[C@]4(OC(CC)=O)C(CO)=O)=C1	Impurity	DCTI-C-008	(8S,9R,10S,11S,13S,14S,16S,17R)-9-fluoro-11-hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl propionate	5534-13-4	Betamethasone 17-propionate; Betamethasone 17a-propionate	C25H33FO6	448.53
662		Clobetasol 1,4,16-triene Impurity	O=C(C([C@@]1(C)C[C@@H]([C@]([C@@]2(C)C=C3)4F)O)=C(C)C[C@@]1([H])[C@]4([H])CCC2=CC3=O)CO	metabolite	DCTI-C-1781	(8S,9R,10S,11S,13S,14S)-9-fluoro-11-hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,9,10,11,12,13,14,15-decahydro-3H-cyclopenta[a]phenanthren-3-one	NA	(11ß)-9-Fluoro-11,21-dihydroxy-16-methylpregna-1,4,16-triene-3,20-dione	C22H27FO4	374.45
663		Clobetasol Dipropionate 9-Fluoro Impurity	O[C@H]([C@@]1([C@]2(C)C(CC[C@@]1([H])[C@]3([H])C[C@@H]/4C)=CC(C=C2)=O)F)C[C@]3(C)C4=C\C(O)=O	metabolite	DCTI-C-1827	(E)-2-((8S,9R,10S,11S,13S,14S,16S)-9-fluoro-11-hydroxy-10,13,16-trimethyl-3-oxo-3,6, 7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene) acetic acid	NA	Clobetasol Acetic acid Impurity; Clobetasol Impurity RRT-0.46; 9-Fluoro-11β-hydroxy-16β-methyl-3-oxopregna-1,4,17(20)-trien-21-oic acid; Clobetasol Propionate EP Impurity F	C22H27FO4	374.45

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664		Clobetasol EP Impurity I	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@H](C)[C@]4(OC(CC)=O)C(COS(=O)(C)=O)=O)=C1	Impurity	DCTI-C-009	(8S,9R,10S,11S,13S,14S,16S,17R)-9-fluoro-11-hydroxy-10,13,16-trimethyl-17-(2-(methylsulfonyloxy)acetyl)-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3*H*-cyclopenta[a]phenanthren-17-yl propionate.	15423-80-0	Clobetasol Propionate - Impurity I	C26H35FO8S	526.62
665		Clobetasol propionate EP Impurity J	C[C@@]12[C@](C3=O)(OC(CC)=C3Cl)[C@@H](C)C[C@@]1([H])[C@]4([H])CCC5=CC(C=C[C@]5(C)[C@@]4(F)[C@@H](O)C2)=O	IMPURITY	DCTI-C-2720	(8S,9R,10S,11S,13S,14S,16S,17R)-4'-chloro-5'-ethyl-9-fluoro-11-hydroxy-10,13,16-trimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3'H-spiro[cyclopenta[a]phenanthrene-17,2'-furan]-3,3'(6H)-dione	1486466-31-2	Clobetasol Propionate 17α-spiro Compound; Clobetasol Propionate USP Related Compound A	C25H30ClFO4	448.96
666	**Clobetasol**	Clobetasol Propionate Impurity UK-01	O=C1C=C[C@@]2(C)C(CC[C@]3([H])C2[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@H](C)[C@@]4(C(CO)=O)O)=C1	IMPURITY	DCTI-C-3492	(8S,10R,11S,13S,14S,16S,17R)-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	2597-76-4	NA	C22H30O5	374.48
667		Clomiphene related compound A	CCN(CC)CCOC1=CC=C(/C(C2=CC=CC=C2)=C/C3=CC=CC=C3)C=C1.Cl	Impurity	DCTI-C-2863	2-(4-(1,2-diphenylvinyl)phenoxy)-N,N-diethylethan-1-amine hydrochloride	74056-26-1	Clomiphene EP Impurity A; Clomiphene USP Related Compound A; Deschloro Clomiphene Hydrochloride (E/Z Mixture)	C26H29NO (Free Base)C26H30ClNO (HCl Salt)	371.52 (Free Base)407.98 (HCl Salt)
668		Clomiphene benzophenone analog	O=C(C1=CC=C(OCCN(CC)CC)C=C1)C2=CC=CC=C2	Impurity	DCTI-C-2865	(4-(2-(diethylamino)ethoxy)phenyl)(phenyl)methanone	796-77-0	NA	C19H23NO2	297.4
669		Clomiphene keto analog TFA salt	O=C(C(C1=CC=C(OCCN(CC)CC)C=C1)C2=CC=CC=C2)C3=CC=CC=C3.O=CC(F)(F)F	Impurity	DCTI-C-2940	2-(4-(2-(diethylamino)ethoxy)phenyl)-1,2-diphenylethan-1-one 2,2,2-trifluoroacetate	5530-99-4 (free base)	Clomiphene EP Impurity C	Free Base:C26H29NO2; TFA Salt: C28H30F3NO4	Free Base: 387.52;TFA Salt: 501.55
670		Clomiphene α-Methoxy ketone TFA salt	O=C(C(C1=CC=C(OCCN(CC)CC)C=C1)(OC)C2=CC=CC=C2)C3=CC=CC=C3.O=CC(F)(F)F	Impurity	DCTI-C-2949	2-(4-(2-(diethylamino)ethoxy)phenyl)-2-methoxy-1,2-diphenylethan-1-one, 2,2,2-trifluoroacetate	NA	NA	Free Base: C27H31NO3;TFA Salt: C29H32F3NO5	Free Base: 417.55; TFA Salt: 531.57

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
671	**Clomiphene**	Clomiphene Dimer (E and Z Isomers)	CCN(CCOC1=CC=C(/C(C2=CC=CC=C2)=C(Cl)\C3=CC=CC=C3)C=C1)CCOC4=CC=C(/C(C5=CC=CC=C5)=C(Cl)\C6=CC=CC=C6)C=C4	Impurity	DCTI-C-3059	2-(4-(2-chloro-1,2-diphenylvinyl)phenoxy)-N-(2-(4-(2-chloro-1,2-diphenylvinyl)phenoxy)ethyl)-N-ethylethan-1-amine	NA	NA	C46H41Cl2NO2	710.74
672		Clomiphene N-Oxide	CC[N+](CCOC1=CC=C(/C(C2=CC=CC=C2)=C(Cl)/C3=CC=CC=C3)C=C1)([O-])CC	metabolite	DCTI-C-2460	2-diphenylvinyl)phenoxy)-N,N-diethyletha	97642-74-5	NA	C26H28ClNO2	421.97
673		4-Hydroxyclomiphene (Mixture of Z and E Isomers)	Cl/C(C1=CC=CC=C1)=C(C2=CC=C(C=C2)OCCN(CC)CC)/C3=CC=C(C=C3)O.O=CO	Impurity	DCTI-C-2462	4-(2-chloro-1-(4-(2-(diethylamino)ethoxy)phenyl)-2-phenylvinyl)phenol formate	79838-51-0 (Freebase)	4-Hydroxyclomiphene formate; 4-Hydroxyclomifene	C26H28ClNO2 (Free Base) C27H30ClNO4 (Formate Salt)	421.97 (Free Base) 467.99 (Formate Salt)
674		N-Desethyl Clomiphene Hydrochloride (Mixture of Z and E Isomers)	CCNCCOC1=CC=C(/C(C2=CC=CC=C2)=C(Cl)/C3=CC=CC=C3)C=C1.Cl	Impurity	DCTI-C-2463	2-(4-(2-chloro-1,2-diphenylvinyl)phenoxy)-N-ethylethan-1-amine hydrochloride	1310815-19-0 (Salt); 78693-91-1 (Free base)	N-Desethyl Clomiphene HCl; Desethylclomifene Hydrochloride	C24H24ClNO (Free Base) C24H25Cl2NO (HCl Salt)	377.91 (Free Base) 414.37 (HCl Salt)
675		Chlorostilbene (E and Z Isomers)	ClCCOC1=CC=C(C(C2=CC=CC=C2)=C(C3=CC=CC=C3)Cl)C=C1	IMPURITY	DCTI-C-2965	Z/E 1-(2-CHLORO-1,2-DIPHENYLETHANE)-4-(2-CHLOROETHOXY)BENZENE	na	na	C22H18Cl2O	369.2
676	**Clozapine**	N-Nitroso Clozapine	CN1CCN(C2=NC3=CC(Cl)=CC=C3N(N=O)C4=CC=CC=C24)CC1	NDSRI	DCTI-C-3726	8-chloro-11-(4-methylpiperazin-1-yl)-5-nitroso-5H-dibenzo[b,e][1,4]diazepine	156632-03-0	N-Nitroso Clozapine (Mixture of Isomers)	C18H18ClN5O	355.83
677	**Cobicistat**	Ethyl(S)-2-(3-((2-isopropylthiazol-4-yl)methyl)-3-methylureido)-4-morpholinobutanoate oxalate	CCOC([C@H](CCN1CCOCC1)NC(N(C)CC2=CSC(C(C)C)=N2)=O)=O.OC(C(O)=O)=O	Impurity	DCTI-C-2808	Ethyl(S)-2-(3-((2-isopropylthiazol-4-yl)methyl)-3-methylureido)-4-morpholinobutanoate oxalate	1247119-35-2 (Free Base	Cobicistat impurity 1	C21H34N4O8S (Oxalate salt)C19H32N4O4S (Free Base)	502.58 (Oxalate salt)412.55 (Free Base)

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678	Cobicistat	5-Thiazolylmethyl N-[(1R,4R)-4-Amino-5-phenyl-1-(phenylmethyl)pentyl] Carbamate (TFA Salt)(Cobicistat)	N[C@H](CC[C@@H](NC(OCC1=CN=CS1)=O)CC2=CC=CC=C2)CC3=CC=CC=C3.FC(F)(F)C(O)=O	Impurity	DCTI-C-2851	Thiazol-5-ylmethyl ((2R,5R)-5-amino-1,6-diphenylhexan-2-yl)carbamate 2,2,2-trifluoroacetate	1004316-18-0(Free base)	Cobicistat Impurity-2, Cobicistat Stage-1 enantiomer	(Free base) C23H27N3O2S (TFA Salt) C25H28F3N3O4S	Freebase: 409.55;TFA Salt: 523.57
679	Cortisone	21-Dehydro Cortisone Impurity (mixture of the aldehyde & the hydrated form)	O[C@]1(C(C([H])=O)=O)CC[C@@]([C@]1(C)C2)([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])C2=O)=O.O	impurity	DCTI-C-1987	2-((8S,9S,10R,13S,14S,17R)-17-hydroxy-10,13-dimethyl-3,11-dioxo-2,3,6,7,8,9,10,11, 12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2-oxoacetaldehyde hydrate	NA	NA	C21H26O5 (Aldehyde) C21H28O6 (Hydrated Form)	358.43 (Aldehyde) 376.45 (Hydrated Form)
680		Cortisone 17-Carboxylic Acid	O=C(CC[C@]12C)C=C2CC[C@]([C@]3([H])CC[C@@](C(O)=O)(O)[C@@]3(C)C4)([H])[C@]1([H])C4=O	impurity	DCTI-C-1988	(8S,9S,10R,13S,14S,17R)-17-hydroxy-10,13-dimethyl-3,11-dioxo-2,3,6,7,8,9,10, 11,12, 13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-17-carboxylic acid	3597-44-2	17-Hydroxy-3,11-dioxo-androst-4-ene-17β-carboxylic Acid.	C20H26O5	346.42
681	Cortexolone	CORTEXOLONE 21-PROPIONATE	O=C1C=C2[C@](C)(CC1)[C@@]3([H])CC[C@]4(C)[C@](C(COC(CC)=O)=O)(O)CC[C@@]4([H])[C@]3([H])CC2	Impurity	DCTI-C-3450	2-((8R,9S,10R,13S,14S,17R)-17-hydroxy-10,13-di methyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14, 15,16,17 -tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl propionate	95624-09-2	Cortexolone Impurity D	C24H34O5	402.53
682		5-(4-cyanophenoxy)-2-hydroxybenzoic acid	OC(C1=CC(OC2=CC=C(C#N)C=C2)=CC=C1O)=O	metabolite	DCTI-C-351	5-(4-cyanophenoxy)-2-hydroxybenzoic acid	NA	Crisaborole Impurity-4	C14H9NO4	255.23
683		4-(4-(4-bromo-3-formylphenoxy)-3-formylphenoxy)benzonitrile	N#CC1=CC=C(OC2=CC=C(OC3=CC=C(Br)C(C([H])=O)=C3)C(C([H])=O)=C2)C=C1	Impurity	DCTI-C-352	4-(4-(4-bromo-3-formylphenoxy)-3-formylphenoxy)benzonitrile	NA	CRB-Ether Dimer impurity	C21H12BrNO4	422.23
684		O-isomer of Crisaborole	OB1C2=CC=C(OC3=C(C#N)C=CC=C3)C=C2CO1	Impurity	DCTI-C-373	2-((1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-5-yl)oxy)benzonitrile	906673-30-1	Crisaborole Ortho Isomer; 4-Descyano-2-cyano-crisaborole	C14H10BNO3	251.05

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685	Crisaborole	4-(4-hydroxy-3-(hydroxymethyl)phenoxy)benzonitrile	OC(C=C1)=C(CO)C=C1OC2=CC=C(C#N)C=C2	metabolite	DCTI-C-374	4-(4-hydroxy-3-(hydroxymethyl)phenoxy)benzonitrile	NA	Crisaborole Impurity-1	C14H11NO3	241.25
686		5-(3-cyanophenoxy)-1,3-dihydro-1-hydroxy-2,1-benzoxaborole/m-Crisaborole	OB1C2=CC=C(OC3=CC(C#N)=CC=C3)C=C2CO1	impurity	DCTI-C-1224	3-((1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-5-yl)oxy)benzonitrile	906673-42-5	m-isomer of Crisaborole	C14H10BNO3	251.05
687		4-((1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-5-yl)oxy)benzamide	NC(C(C=C1)=CC=C1OC2=CC=C3C(COB3O)=C2)=O	Impurity	DCTI-C-375	4-((1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-5-yl)oxy)benzamide	1187188-59-5	NA	C14H12BNO4	269.06
688		4-((1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-5-yl)oxy)benzoic acid	OC(C(C=C1)=CC=C1OC2=CC=C3C(COB3O)=C2)=O	Impurity	DCTI-C-376	4-((1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-5-yl)oxy)benzoic acid	906673-43-6	NA	C14H11BO5	270.05
689		4-(4-(hydroxymethyl)phenoxy)benzoic acid (Crisaborole)	OCC1=CC=C(OC2=CC=C(C(O)=O)C=C2)C=C1	impurity	DCTI-C-1151	4-(4-(hydroxymethyl)phenoxy)benzoic acid	1095050-84-2	AZD 9291 Impurity-J	C14H12O4	244.25
690	Cyclobenzaprine	Cyclobenzaprine 10,11-Epoxide	CN(C)CC/C=C1C2=CC=CC=C2C3C(O3)C4=C/1C=CC=C4	metabolite	DCTI-C-2828	3-(1a,10b-dihydro-6H-dibenzo[3,4:6,7]cyclohepta[1,2-b]oxiren-6-ylidene)-N,N-dimethylpropan-1-amine	58256-08-9	Cyclobenzaprine Epoxide	C20H21NO	291.39
691		N-Nitroso Cyclobenzaprine (Mixture of Isomers)	CN(N=O)CC/C=C1C(C=CC=C2)=C2C=CC3=C\1C=CC=C3	NDSRI	DCTI-C-3780	N-(3-(5H-dibenzo[a,d][7]annulen-5-ylidene)propyl)-N-methylnitrous amide	NA	N-Nitroso Desmethyl Cyclobenzaprine	C19H18N2O	290.36
692		Cyclophosphamide Related Impurity (Closed Ring Ethanol Aduct)	O=P1(N(CCOCC)CCCl)OCCCN1	Impurity	DCTI-C-003	2-((2-chloroethyl)(2-ethoxyethyl)amino)-1,3,2-oxazaphosphinane 2-oxide	NA	Cyclophosphamide Impurity F	C9H20ClN2O3P	270.69
693		Dihydroxybenzyl cyclophosphamide	OCCN(CCO)P1(OCCCN1CC2=CC=CC=C2)=O	impurity	DCTI-C-1850	3-benzyl-2-(bis(2-hydroxyethyl)amino)-1,3,2-oxazaphosphinane 2-oxide	NA	NA	C14H23N2O4P	314.32

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694	Cyclophosphamide	Cyclophosphamide Related Impurity (Open Ring Ethanol Aduct)	OP(OCCCN)(N(CCOCC)CCCl)=O	Impurity	DCTI-C-004	3-aminopropyl hydrogen (2-chloroethyl)(2-ethoxyethyl)phosphoramidate	NA	Cyclophosphamide Impurity E	C9H22ClN2O4P	288.71
695		Cyclophosphamide Related Compound-D	O=P(O)(OCCCNCCNCCCl)O.[H]Cl.[H]Cl	Impurity	DCTI-C-2839	(3-[2-(2-chloroethylamino)ethylamino]propyl dihydrogen phosphate dihydrochloride)	158401-51-5	1. Cyclophosphamide Impurity D Dihydrochloride; 2.USP Cyclophosphamide Related Compound D	Di HCl Salt: C7H20Cl3N2O4P; Free Base: C7H18ClN2O4P	Di HCl Salt: 333.57; Free Base: 260.65
696		N-Methyl Cyclophosphamide	O=P1(N(C)CCCO1)N(CCCl)CCCl	Impurity	DCTI-C-2934	2-(bis(2-chloroethyl)amino)-3-methyl-1,3,2-oxazaphosphinane 2-oxide	22089-17-4	1. Cyclophosphamide Impurity C; 2.N,N-Bis(2-chloroethyl)tetrahydro-3-methyl-2H-1,3,2-oxazaphosphorin-2-amine 2-Oxide; 3.Cyclophosphamide Impurity 31	C8H17Cl2N2O2P	275.11
697		R-Cyclophosphamide	O=[P@@]1(NCCCO1)N(CCCl)CCCl	Impurity	DCTI-C-2973	(R)-2-(bis(2-chloroethyl)amino)-1,3,2-oxazaphosphinane 2-oxide	60030-72-0	1.2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide, (R)- (ZCI) 2.(+)-Cyclophosphamide 3.R-(+)-Cyclophosphamide	C7H15Cl2N2O2P	261.08
698		S-Cyclophosphamide	O=[P@]1(NCCCO1)N(CCCl)CCCl	Impurity	DCTI-C-2974	(S)-2-(bis(2-chloroethyl)amino)-1,3,2-oxazaphosphinane 2-oxide	60007-96-7	1.2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide, (S)- (ZCI) 2.(-)-(S)-Cyclophosphamide 3.(-)-Cyclophosphamide 4.(S)-Cyclophosphamide	C7H15Cl2N2O2P	261.08
699		Cyclophosphamide Related Compound-A	ClCCNCCCl.[H]Cl	Impurity	DCTI-C-2836	bis(2-chloroethyl)amine hydrochloride	821-48-7	1. Bi(2-chloroethyl)amine hydrochloride; 2. Bis(2-chloroethyl)amine hydrochloride; 3. Bis(2-chloroethyl)ammonium chloride; 4. Bis(β-chloroethyl)amine hydrochloride; 5. Di(2-	HCl Salt: C4H10Cl3N; Free Base: C4H9Cl2N	HCl Salt: 178.48; Free Base:142.02
700		Cyclophosphamide Related Compound-B	OP1(N(CCCl)CCNCCCO1)=O	Impurity	DCTI-C-2837	3-(2-chloroethyl)-2-hydroxy-1,3,6,2-oxadiazaphosphonane 2-oxide	158401-52-6	1. Cyclophosphamide Monochloro Impurity; 2.USP Cyclophosphamide Related Compound B; 3.Cyclophosphamide Impurity B;4.Cyclophosphamide EP Impurity D	C7H16ClN2O3P	242.64

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701		Cyclophosphamide Related Compound-C	NCCCOP(O)(O)=O	Impurity	DCTI-C-2838	3-aminopropyl dihydrogen phosphate	1071-28-9	1. 3-Amino-1-propanol Dihydrogen Phosphate; 2.3-Aminopropyl Monophosphate; 3.USP Cyclophosphamide Related Compound-C	C3H10NO4P	155.09
702		Ifosfamide EP Impurity A	ClCCNCCCOP(O)(O)=O	Impurity	DCTI-C-2883	3-((2-chloroethyl)amino)propyl dihydrogen phosphate	22608-58-8	3-[(2-Chloroethyl)amino]-1-propanol Dihydrogen Phosphate (Ester)	C5H13ClNO4P	217.59
703		Monohydroxy Cyclophosphamide	ClCCN(CCO)P1(NCCCO1)=O	Impurity	DCTI-C-2986	2-((2-chloroethyl)(2-hydroxyethyl)amino)-1,3,2-oxazaphosphinane 2-oxide	1797009-12-1	1. N-(2-Chloroethyl)-N-(2-hydroxyethyl)tetrahydro-2H-1,3,2-oxazaphosphorin-2-amine 2-Oxide 2. Cyclophosphamide EP Impurity A	C7H16ClN2O3P	242.64
704		Dihydroxy Cyclophosphamide	O=P1(NCCCO1)N(CCO)CCO	Impurity	DCTI-C-2868	2-(bis(2-hydroxyethyl)amino)-1,3,2-oxazaphosphinane 2-oxide	90632-33-0	1. 2H-1,3,2-Oxazaphosphorine, ethanol deriv. (ZCI)2.Ethanol, 2,2'-[(tetrahydro-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis-, P-oxide (ZCI)3.Didechlorodihydroxycyclophosphamide	C7H17N2O4P	224.2
705		3-aminopropyl hydrogen bis(2-chloroethyl)phosphoramidate hydrochloride / Cyclophosphamide	ClCCN(CCCl)P(OCCCN)(O)=O.Cl	IMPURITY	DCTI-C-2428	3-aminopropyl hydrogen bis(2-chloroethyl)phosphoramidate hydrochloride	na	Cyclophosphamide Open Ring Ethanol Adduct	C7H17Cl2N2O3P (Free base); C7H18Cl3N2O3P(Salt)	279.10(Free base) 315.56(Salt)
706		Cyclophosphamide Pyrophosphate analog	O=P(O)(OP(O)([O-])=O)OCCC(CCCNCCNCCCl)N	IMPURITY	DCTI-C-2963	3-(2-(2-Chloroethylamino)ethylamino)propyl-3-aminopropyl dihydrogen diphosphate	na	na	C10H25ClN3O7P2	396.72
707		Cytidine Isopropyl Impurity	O=C1N([C@@H]2O[C@H](COP(N[C@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)[C@@H](O)[C@H]2O)C=CC(NO)=N1	impurity	DCTI-C-1989	Isopropyl ((((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	(6α,11β)-6,9-Difluoro-11,21-dihydroxy-17-(1-oxobutoxy)pregna-1,4-diene-3,20-dione; Isopropyl ((((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate.	C21H29N4O10P	528.45

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708	Cytidine	Cytidine 2-Ethylbutyl Impurity (R-Isomer)	C[C@@H](C(OCC(CC)CC)=O)N[P@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(NO)=NC3=O)[C@H](O)[C@@H]2O)=O	impurity	DCTI-C-1990	2-ethylbutyl((R)-(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C24H35N4O10P	570.54
709		Cytidine 2-Ethylbutyl Sesamol Impurity (R-Isomer)	C[C@@H](C(OCC(CC)CC)=O)N[P@](OC1=CC(OCO2)=C2C=C1)(OC[C@H]3O[C@@H](N4C=CC(NO)=NC4=O)[C@H](O)[C@@H]3O)=O	impurity	DCTI-C-1991	2-ethylbutyl ((R)-(benzo[d][1,3]dioxol-5-yloxy)(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)phosphoryl)-L-alaninate	NA	NA	C25H35N4O12P	614.54
710		Cytidine 2-Ethylbutyl Impurity (S-Isomer)	C[C@@H](C(OCC(CC)CC)=O)N[P@@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(NO)=NC3=O)[C@H](O)[C@@H]2O)=O	impurity	DCTI-C-1992	2-ethylbutyl((S)-(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate.	NA	2-ethylbutyl ((S)-(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate.	C24H35N4O10P	570.54
711		Cytidine 2-Ethylbutyl sesamol Impurity (S-Isomer)	C[C@@H](C(OCC(CC)CC)=O)N[P@@](OC1=CC(OCO2)=C2C=C1)(OC[C@H]3O[C@@H](N4C=CC(NO)=NC4=O)[C@H](O)[C@@H]3O)=O	impurity	DCTI-C-1993	2-ethylbutyl ((S)-(benzo[d][1,3]dioxol-5-yloxy)(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)phosphoryl)-L-alaninate	NA	NA	C25H35N4O12P	614.54

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
712		Cytidine Isopropyl Impurity (S-Isomer)	C[C@@H](C(OC(C)C)=O)N[P@@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(NO)=NC3=O)[C@H](O)[C@@H]2O)=O.O=C[O-]	impurity	DCTI-C-1994	isopropyl ((S)-(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate, formate salt	1955522-08-3 (free acid)	NA	C21H29N4O10P (Free base) C22H30N4O12P- (Salt)	528.45 (Free base) 573.47 (Salt)
713		Cytidine Isopropyl Impurity (R-Isomer)	C[C@@H](C(OC(C)C)=O)N[P@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(NO)=NC3=O)[C@H](O)[C@@H]2O)=O.O=C[O-]	impurity	DCTI-C-1995	isopropyl ((R)-(((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate, formate salt	1955522-07-2 (free acid)	NA	C21H29N4O10P (Free base) C22H30N4O12P- (Salt)	528.45 (Free base) 573.47 (Salt)
714		L-Cytidine	O=C1N([C@H]2O[C@@H](CO)[C@H](O)[C@@H]2O)C=CC(N)=N1	impurity	DCTI-C-1996	4-amino-1-((2S,3S,4R,5S)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-2(1H)-one	26524-60-7	Cytosine, 1-β-L-ribofuranosyl- (8CI); 4-Amino-1-β-L-ribofuranosyl-2(1H)-pyrimidinone; β-L-Cytidine	C9H13N3O5	243.22
715	**Dabigatran**	4-[2-(Methylamino)-5-nitro-anilino]-4-oxo-butanoic acid impurity	O=C(O)CCC(NC1=CC([N+]([O-])=O)=CC=C1NC)=O	impurity	DCTI-C-1997	4-((2-(methylamino)-5-nitrophenyl)amino)-4-oxobutanoic acid	91332-91-1	NA	C11H13N3O5	267.24
716		(4-carbamoylphenyl)glycine	OC(CNC1=CC=C(C(N)=O)C=C1)=O	impurity	DCTI-C-1869	(4-carbamoylphenyl)glycine	NA	NA	C9H10N2O3	194.19
717		2,2'-((4-cyanophenyl)azanediyl)diacetic acid	N#CC1=CC=C(N(CC(O)=O)CC(O)=O)C=C1	impurity	DCTI-C-1870	2,2'-((4-cyanophenyl)azanediyl)diacetic acid	NA	NA	C11H10N2O4	234.21

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
718		N-Nitroso Dabigatran etexilate	CCCCCCOC(/N=C(N)/C1=CC=C(N(N=O)CC2=NC3=C(C=CC(C(N(C4=CC=CC=N4)CCC(OCC)=O)=O)=C3)N2C)C=C1)=O	NDSRI	DCTI-C-2361	ethyl (Z)-3-(2-(((4-(N'-((hexyloxy)carbonyl)carbamimidoyl)phenyl)(nitroso)amino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate	NA	NA	C34H40N8O6	656.74
719	**Dabrafenib**	Hydroxy Dabrafenib	CC(C1=NC(C2=C(F)C(NS(=O)(C3=C(F)C=CC=C3F)=O)=CC=C2)=C(C4=NC(N)=NC=C4)S1)(CO)C	metabolite	DCTI-C-3075	N-(3-(5-(2-aminopyrimidin-4-yl)-2-(1-hydroxy-2-methylpropan-2-yl)thiazol-4-yl)-2-fluorophenyl)-2,6-difluorobenzenesulfonamide	1195767-77-1	Dabrafenib Hydroxy Impurity	C23H20F3N5O3S2	535.56
720		methyl 3-((2,6-difluorophenyl)sulfonamido)-2-fluorobenzoate	O=C(C1=C(F)C(NS(=O)(C2=C(F)C=CC=C2F)=O)=CC=C1)OC	Impurity	DCTI-C-3042	methyl 3-((2,6-difluorophenyl)sulfonamido)-2-fluorobenzoate	1195768-19-4	Dabrafenib impurity 2	C14H10F3NO4S	345.29
721		Desmethyl Dabrafenib	CC(C1=NC(C2=C(F)C(NS(=O)(C3=C(F)C=CC=C3F)=O)=CC=C2)=C(C4=NC(N)=NC=C4)S1)C	Metabolites	DCTI-C-3039	N-(3-(5-(2-aminopyrimidin-4-yl)-2-isopropylthiazol-4-yl)-2-fluorophenyl)-2,6-difluorobenzenesulfonamide	1195765-47-9	NA	C22H18F3N5O2S2	505.53
722		CARBOXY-DABRAFENIB	CC(C1=NC(C2=C(F)C(NS(=O)(C3=C(F)C=CC=C3F)=O)=CC=C2)=C(C4=NC(N)=NC=C4)S1)(C)C(O[Na])=O	Metabolite	DCTI-C-3731	sodium 2-(5-(2-aminopyrimidin-4-yl)-4-(3-((2,6-difluorophenyl)sulfonamido)-2-fluorophenyl)thiazol-2-yl)-2-methylpropanoate	NA	NA	C23H17F3N5NaO4S2(sodium salt);C23H18F3N5O4S2(free acid)	571.52(sodium salt);549.54(free acid)
723	**Daclatasvir**	Daclatasvir Impurity G	O=C([C@H](C(C)C)NC(OC)=O)N(CCC1)[C@@H]1C2=NC(C(C=C3)=CC=C3C4=CC=C(C5=CNC([C@H]6N(C([C@@H](NC(OC)=O)C(C)C)=O)CCC6)=N5)C=C4)=CO2	impurity	DCTI-C-1415	methyl ((S)-1-((S)-2-(4-(4'-(2-((S)-1-((methoxycarbonyl)-L-valyl)pyrrolidin-2-yl)-1H-imidazol-4-yl)-[1,1'-biphenyl]-4-yl)oxazol-2-yl)pyrrolidin-1-yl)-3-methyl-1-oxobutan-2-yl)carbamate	NA	NA	C40H49N7O7	739.87
724	**DANTROLENE**	DANTROLENE RELATED COMPOUND C	O=CC1=CC=C(C2=CC=C([N+]([O-])=O)C=C2)O1	impurity	DCTI-C-1998	5-(4-nitrophenyl)furan-2-carbaldehyde	7147-77-5	Dantrolene USP related compound C	C11H7NO4	217.18

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
725	Dapagliflozin	Dapagliflozin Tetraacetate	ClC1=C(CC2=CC=C(OCC)C=C2)C=C([C@H]3[C@H](OC(C)=O)[C@@H](OC(C)=O)[C@H](OC(C)=O)[C@@H](COC(C)=O)O3)C=C1	Impurity	DCTI-C-1472	(2R,3R,4R,5S,6S)-2-(acetoxymethyl)-6-(4-chloro-3-(4-ethoxybenzyl)phenyl)tetrahydro-2H-pyran-3,4,5-triyl triacetate	461432-25-7	NA	C29H33ClO10	577.02
726		5-bromo-2-chloro-4'-ethoxydiphenylmethane	CCOC1=CC=C(CC2=CC(Br)=CC=C2Cl)C=C1	Impurity	DCTI-C-1664	4-bromo-1-chloro-2-(4-ethoxybenzyl)benzene	461432-23-5	Dapagliflozin Impurity 15	C15H14BrClO	325.63
727		Monoacetyl Dapagliflozin	ClC1=C(CC2=CC=C(OCC)C=C2)C=C([C@H]3[C@H](O)[C@@H](O)[C@H](O)[C@@H](COC(C)=O)O3)C=C1	Impurity	DCTI-C-1756	((2R,3S,4R,5R,6S)-6-(4-chloro-3-(4-ethoxybenzyl)phenyl)-3,4,5-trihydroxy tetrahydro-2H-pyran-2-yl)methyl acetate	NA	Dapagliflozin methyl acetate, Dapagliflozin Impurity 32	C23H27ClO7	450.91
728		Dapagliflozin amorphous Impurity	BrC1=C(CC2=CC=C(OCC)C=C2)C=C([C@H]3[C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O3)C=C1	Impurity	DCTI-C-1665	(2S,3R,4R,5S,6R)-2-(4-bromo-3-(4-ethoxybenzyl)phenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol	1807632-95-6	Bromo dapagliflozin; Dapagliflozin Imputiy 3	C21H25BrO6	453.33
729		Dapagliflozin Hydroxy Impurity	O[C@@H]1[C@@H](O)[C@H](O)[C@@H](CO)O[C@@]1(O)C2=CC=C(Cl)C(CC3=CC=C(OCC)C=C3)=C2	Impurity	DCTI-C-1473	(2S,3R,4S,5S,6R)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-2,3,4,5-tetraol	960404-86-8	Dapagliflozin impurity 10	C21H25ClO7	424.87

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
730		1α-Methoxy Dapagliflozin	O[C@@H]1[C@@H](O)[C@H](O)[C@@H](CO)O[C@@]1(OC)C2=CC=C(Cl)C(CC3=CC=C(OCC)C=C3)=C2	Impurity	DCTI-C-1474	(2S,3R,4S,5S,6R)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-6-(hydroxymethyl)-2-methoxytetrahydro-2H-pyran-3,4,5-triol	714269-57-5	NA	C22H27ClO7	438.9
731		Dapagliflozin Impurity-3	ClC(C=C1)=C(CC2=CC=C(OCC)C=C2)C=C1C3=CC(CC4=CC=C(OCC)C=C4)=C(Cl)C=C3	Impurity	DCTI-C-3171	4,4'-dichloro-3,3'-bis(4-ethoxybenzyl)-1,1'-biphenyl	2176485-21-3	NA	C30H28Cl2O2	491.45
732		Dapagliflozin Hydroperoxide Impurity	CCOC1=CC=C(C=C1)C(OO)C2=C(C=CC([C@@H]3O[C@@H]([C@H]([C@@H]([C@H]3O)O)O)CO)=C2)Cl	Metabolite	DCTI-C-3804	(2S,3R,4R,5S,6R)-2-(4-chloro-3-((4-ethoxyphenyl)(hydroperoxy)methyl)phenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol	2452300-94-4	Dapagliflozin Peroxide Impurity(Mixture of isomers):Dapagliflozin Hydroperoxide (Mixture of isomers)	C21H25ClO8	440.87
733	**Darifenacin**	Darifenacin Impurity H	O=C(NCN1C[C@H](C(C2=CC=CC=C2)(C3=CC=CC=C3)C(N)=O)CC1)C(C4=CC=CC=C4)([C@H]5CN(CCC6=CC=C(OCC7)C7=C6)CC5)C8=CC=CC=C8	Impurity	DCTI-C-3343	N-(((S)-3-(2-amino-2-oxo-1,1-diphenylethyl)pyrrolidin-1-yl)methyl)-2-((S)-1-(2-(2,3-dihydrobenzofuran-5-yl)ethyl)pyrrolidin-3-yl)-2,2-diphenylacetamide	NA	Darifenacin EP Impurity H	C47H50N4O3	718.94
734		Darifenacin Nitroso Impurity	O=C(N)C(C1=CC=CC=C1)(C2=CC=CC=C2)[C@@H](C3)CCN3N=O	NDSRI	DCTI-C-3703	(S)-2-(1-nitrosopyrrolidin-3-yl)-2,2-diphenylacetamide	NA	Darifenacin Nitroso Impurity (Mixture of isomers)	C18H19N3O2	309.37
735		Darifenacin Open Bromo Impurity	OC1=C(CCBr)C=C(CCN2CC[C@@H](C(C3=CC=CC=C3)(C4=CC=CC=C4)C(N)=O)C2)C=C1.Br	Impurity	DCTI-C-3753	(S)-2-(1-(3-(2-bromoethyl)-4-hydroxyphenethyl)pyrrolidin-3-yl)-2,2-diphenylacetamide hydrobromide	2468796-90-7	NA	HBr Salt: C28H32Br2N2O2 Free base: C28H31BrN2O2	HBr Salt: 588.38 Free base: 507.47
736		BIS THF HNS Derivative-I	[H][C@]12[C@]([C@H](OC(ON3C(CCC3=O)=O)=O)CO2)([H])CCO1	Impurity	DCTI-C-239	2,5-dioxopyrrolidin-1-yl ((3S,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl) carbonate	253265-98-4	NA	C11H13NO7	271.23

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737		Tert-butyl ((2S,3S)-4-chloro-3-hydroxy-1-phenylbutan-2-yl) carbamate	O[C@@H]([C@@H](NC(OC(C)(C)C)=O)CC1=CC=CC=C1)CCl	impurity	DCTI-C-1868	Tert-butyl ((2S,3S)-4-chloro-3-hydroxy-1-phenylbutan-2-yl) carbamate	NA	Darunavir intermediate (S, S) isomer	C15H22ClNO3	299.8
738		Darunavir impurity 22	CC(OC(N[C@H]([C@H]1CO1)CC2=CC=CC=C2)=O)(C)C	impurity	DCTI-C-1845	tert-butyl ((S)-1-((S)-oxiran-2-yl)-2-phenylethyl) carbamate	NA	Atazanavir Impurity 21	C15H21NO3	263.33
739		DARUNAVIR IMPURITY-24	N[C@H]([C@H](O)CN(CC(C)C)S(=O)(C1=CC=C(NC(C)=O)C=C1)=O)CC2=CC=CC=C2.Cl	impurity	DCTI-C-1846	N-(4-(N-((2R,3S)-3-amino-2-hydroxy-4-phenylbutyl)-N-isobutylsulfamoyl)phenyl)acetamide hydrochloride	NA	NA	C22H31N3O4S (Free base) C22H32ClN3O4S (HCl salt)	433.56 (Free base) 470.02 (HCl salt)
740		Darunavir Impurity-A	N[C@H]([C@H](O)CN(CC(C)C)S(=O)(C1=CC=C(N)C=C1)=O)CC2=CC=CC=C2	impurity	DCTI-C-1847	4-amino-N-((2R, 3S)-3-amino-2-hydroxy-4-phenylbutyl)-N-isobutylbenzenesulfonamide	NA	NA	C20H29N3O3S	391.53
741		Darunavir Impurity 18	CC(C)CNC[C@H]([C@H](Cc1ccccc1)NC(OC(C)(C)C)=O)O	Impurity	DCTI-C-1720	tert-butyl ((2S,3R)-3-hydroxy-4-(isobutylamino)-1-phenylbutan-2-yl) carbamate	NA	NA	C19H32N2O3	336.48
742		BIS THF HNS Derivative-II	[H][C@@]12[C@@]([C@H](OC(ON3C(CCC3=O)=O)=O)CO2)([H])CCO1	Impurity	DCTI-C-240	2,5-dioxopyrrolidin-1-yl((3S,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl) carbonate	799241-85-3	NA	C11H13NO7	271.23

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
743		BIS THF HNS Derivative-III	[H][C@]12[C@]([C@@H](OC(ON3C(CCC3=O)=O)=O)CO2)([H])CCO1	Impurity	DCTI-C-241	2,5-dioxopyrrolidin-1-yl((3R,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl) carbonate	799241-86-4	NA	C11H13NO7	271.23
744		(3R,3aR,6aS)-Darunavir isomer	O[C@H](CN(CC(C)C)S(C1=CC=C(N)C=C1)(=O)=O)[C@@H](NC(O[C@H]2CO[C@@]3([H])[C@]2([H])CCO3)=O)CC4=CC=CC=C4	Impurity	DCTI-C-378	(3R,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	799241-74-0	TMC 181568	C27H37N3O7S	547.67
745		(3S,3aR,6aS)-Darunavir isomer	O[C@H](CN(CC(C)C)S(C1=CC=C(N)C=C1)(=O)=O)[C@@H](NC(O[C@@H]2CO[C@@]3([H])[C@]2([H])CCO3)=O)CC4=CC=CC=C4	Impurity	DCTI-C-379	(3S,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	799241-73-9	TMC 87344	C27H37N3O7S	547.67
746		(3S,3aS,6aR)-Darunavir isomer	O[C@H](CN(CC(C)C)S(C1=CC=C(N)C=C1)(=O)=O)[C@@H](NC(O[C@@H]2CO[C@]3([H])[C@@]2([H])CCO3)=O)CC4=CC=CC=C4	Impurity	DCTI-C-380	(3S,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	799241-75-1	TMC 181596	C27H37N3O7S	547.67
747		BIS THF 4-Nitro Phenyl Carbonate Derivative- I	[H][C@]12[C@]([C@H](OC(OC3=CC=C([N+]([O-])=O)C=C3)=O)CO2)([H])CCO1	Impurity	DCTI-C-470	(3S,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl (4-nitrophenyl) carbonate	NA	NA	C13H13NO7	295.25

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748	Darunavir	BIS THF 4-Nitro Phenyl carbonate Derivative- II	[H][C@@]12[C@@]([C@H](OC(OC3=CC=C([N+]([O-])=O)C=C3)=O)CO2)([H])CCO1	Impurity	DCTI-C-469	(3S,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl (4-nitrophenyl) carbonate	NA	NA	C13H13NO7	295.25
749		BIS THF 4-Nitro Phenyl Carbonate Derivative- III	[H][C@]12[C@]([C@@H](OC(OC3=CC=C([N+]([O-])=O)C=C3)=O)CO2)([H])CCO1	Impurity	DCTI-C-468	(3R,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl (4-nitrophenyl) carbonate	NA	NA	C13H13NO7	295.25
750		Darunavir DP-2 Impurity	CC(C)CN(C[C@@H](O1)[C@@H](NC1=O)CC2=CC=CC=C2)S(=O)(C3=CC=C(N)C=C3)=O	Impurity	DCTI-C-487	4-amino-N-(((4S,5R)-4-benzyl-2-oxooxazolidin-5-yl)methyl)-N-isobutylbenzenesulfonamide	1418639-27-6	NA	C21H27N3O4S	417.52
751		Darunavir DP-3 Impurity	O=C(OC)N[C@H]([C@H](O)CN(S(=O)(C1=CC=C(N)C=C1)=O)CC(C)C)CC2=CC=CC=C2	Impurity	DCTI-C-488	methyl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	1526916-57-3	NA	C22H31N3O5S	449.57
752		Darunavir-Furanone RSS Isomer	O=C1C[C@]([C@@H](OC)OC2)([H])[C@]2([H])O1	Impurity	DCTI-C-770	(3aR,4S,6aS)-4-methoxytetrahydrofuro[3,4-b]furan-2(3H)-one	1932353-11-1	NA	C7H10O4	158.15
753		Darunavir-Furanone RRS Isomer	O=C1C[C@]([C@H](OC)OC2)([H])[C@]2([H])O1	Impurity	DCTI-C-771	(3aR,4R,6aS)-4-methoxytetrahydrofuro[3,4-b]furan-2(3H)-one	1932330-83-0	NA	C7H10O4	158.15

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754		Darunavir-Furanone SRR Isomer	O=C1C[C@@]([C@H](OC)OC2)([H])[C@@]2([H])O1	Impurity	DCTI-C-772	(3aS,4R,6aR)-4-methoxytetrahydrofuro[3,4-b]furan-2(3H)-one	866594-61-8	NA	C7H10O4	158.15
755		Darunavir-Furanone SSR Isomer	O=C1C[C@@]([C@@H](OC)OC2)([H])[C@@]2([H])O1	Impurity	DCTI-C-773	(3aS,4S,6aR)-4-methoxytetrahydrofuro[3,4-b]furan-2(3H)-one	866594-60-7	NA	C7H10O4	158.15
756		Darunavir DNVRC-4	CC(C)CN(S(=O)(C1=CC=C([N+]([O-])=O)C=C1)=O)C[C@@H](O)[C@@H](N)CC2=CC=CC=C2	Impurity	DCTI-C-2910	N-((2R,3S)-3-amino-2-hydroxy-4-phenylbutyl)-N-isobutyl-4-nitrobenzenesulfonamide	251105-80-3	NA	C20H27N3O5S	421.51
757		Darunavir Impurity 25	CC(C)CN(S(=O)(C1=CC=C(NC(C)=O)C=C1)=O)C[C@@H](O)[C@H](CC2=CC=CC=C2)NC(OC(C)(C)C)=O	Impurity	DCTI-C-2911	tert-butyl ((2S,3R)-4-((4-acetamido-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	160230-47-7	NA	C27H39N3O6S	533.68
758		tert-butyl ((2S,3R)-4-chloro-3-hydroxy-1-phenylbutan-2-yl)carbamate	ClC[C@H](O)[C@H](CC1=CC=CC=C1)NC(OC(C)(C)C)=O	Impurity	DCTI-C-2912	tert-butyl ((2S,3R)-4-chloro-3-hydroxy-1-phenylbutan-2-yl)carbamate	162536-40-5	NA	C15H22ClNO3	299.8
759		DARUNAVIR IMPURITY DNVRC-5	O=S(C1=CC=C([N+]([O-])=O)C=C1)(N(C[C@H]([C@H](CC2=CC=CC=C2)NC(O[C@H]3CO[C@H]4OCC[C@@H]34)=O)O)CC(C)C)=O	Impurity	DCTI-C-3577	(3R,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ((2S,3R)-3-hydroxy-4-((N-isobutyl-4-nitrophenyl)sulfonamido)-1-phenylbutan-2-yl)carbamate	799241-76-2	Darunavir impurity 23	C27H35N3O9S	577.65
760		DARUNAVIR DNVRC-2	O=S(C1=CC=C(N)C=C1)(N(C[C@@H]([C@@H](CC2=CC=CC=C2)NC(O[C@@H]3CO[C@@H]4OCC[C@H]34)=O)O)CC(C)C)=O	Impurity	DCTI-C-3611	(3S,3aR,6aS)-hexahydrofuro[2,3-b]furan-3-yl ((2R,3S)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	1399859-60-9	(+)-Darunavir [(1S,5R)-2,8-dioxabicyclo[3.3.0]octa-6-yl]N-[(2R,3S)-4-[(4-aminophenyl)sulfonyl-(2-methyl propyl)amino]-3-hydroxy-1-phenyl-butan-2-yl-]carbamate	C27H37N3O7S	547.67

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761		DARUNAVIR DNVRC-3	O=S(C1=CC=C(N)C=C1)(N(C[C@@H]([C@@H](CC2=CC=CC=C2)NC(O[C@H]3CO[C@H]4OCC[C@@H]34)=O)O)CC(C)C)=O	Impurity	DCTI-C-3612	(3R,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ((2R,3S)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	1402142-63-5	(1R,2S)-Darunavir[(1R,5S,6R)-2,8-dioxabicyclo[3.3.0]octa-6-yl]N-[(2R,3S)-4-[(4-aminophenyl)sulfonyl-(2-methyl propyl)amino]-3-hydroxy-1-phenyl-butan-2-yl]carbamate	C27H37N3O7S	547.67
762		Darunavir Impurity -6	O=S(C1=CC=C(N)C=C1)(N(C[C@@H]([C@H](CC2=CC=CC=C2)NC(O[C@H]3CO[C@H]4OCC[C@@H]34)=O)O)CC(C)C)=O	Impurity	DCTI-C-3730	(3R,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ((2S,3S)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	850141-19-4	2-Epi-darunavir, Darunavir (1S,2S)-Isomer	C27H37N3O7S	547.67
763		Darunavir Deacetyl Boc Amino Impurity	O=C(OC(C)(C)C)N[C@@H](CC1=CC=CC=C1)[C@H](O)CN(S(=O)(C2=CC=C(N)C=C2)=O)CC(C)C	IMPURITY	DCTI-C-2434	tert-butyl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-hydroxy-1-phenylbutan-2-yl)carbamate	183004-94-6	na	C25H37N3O5S	491.65
764		Darunavir Deacetyl sulphonamide Impurity	O=S(C1=CC=C(N)C=C1)(NCC(C)C)=O	IMPURITY	DCTI-C-2435	4-amino-N-isobutylbenzenesulfonamide	53668-36-3	na	C10H16N2O2S	228.31
765		Darunavir DiisoButyl Analogue Impurity	O=C(OC(C)(C)C)N[C@@H](CC1=CC=CC=C1)[C@H](O)CN(CC(C)C)CC(C)C	IMPURITY	DCTI-C-2436	tert-butyl ((2S,3R)-4-(diisobutylamino)-3-hydroxy-1-phenylbutan-2-yl)carbamate	NA	na	C23H40N2O3	392.58
766		Darunavir Bis Impurity	O=C(OC(C)(C)C)N[C@@H](CC1=CC=CC=C1)[C@H](O)CN(C[C@H](O)[C@@H](CC2=CC=CC=C2)NC(OC(C)(C)C)=O)CC(C)C	IMPURITY	DCTI-C-2437	di-tert-butyl ((2S,2'S,3R,3'R)-(isobutylazanediyl)bis(3-hydroxy-1-phenylbutane-4,2-diyl))dicarbamate	2307745-62-4	na	C34H53N3O6	599.81
767		Darunavir Isobutyl Diamino Impurity Hydrochloride	N[C@@H](CC1=CC=CC=C1)[C@H](O)CNCC(C)C.Cl	IMPURITY	DCTI-C-2438	(2R, 3S)-3-amino-1-(isobutylamino)-4-phenylbutan-2-ol hydrochloride	167011-40-7 (Free Base) ; 1416252-71-5 (HCl Salt)	na	C14H24N2O (Free base) C14H25ClN2O (HCl salt)	236.36 (Free base) 272.82 (HCl salt)

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768		Darunavir N-Butyl Analogue Impurity	O=C(OC(C)(C)C)N[C@@H](CC1=CC=CC=C1)[C@H](O)CNCCCC	IMPURITY	DCTI-C-2439	tert-butyl ((2S,3R)-4-(butylamino)-3-hydroxy-1-phenylbutan-2-yl)carbamate	388073-93-6	na	C19H32N2O3	336.48
769		Darunavir N-Propyl Analogue Impurity	O=C(OC(C)(C)C)N[C@@H](CC1=CC=CC=C1)[C@H](O)CNCCC	IMPURITY	DCTI-C-2440	tert-butyl ((2S,3R)-3-hydroxy-1-phenyl-4-(propylamino)butan-2-yl)carbamate	1349180-32-0	na	C18H30N2O3	322.45
770		Delta-9,11-Hydrocortisone Hemisuccinate	O=C(O)CCC(OCC([C@@]1(O)CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)C3=CC[C@]12C)=O)=O)=O	IMPURITY	DCTI-C-2441	4-(2-((8S,10S,13S,14S,17R)-17-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,10,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2-oxoethoxy)-4-oxobutanoic acid	103497-66-1	na	C25H32O7	444.52
771		Darunavir Impurity 35	O=S(C[0]=CC=C(N)C=C@1)(N(CC[S=N]H(O)C[S=N]H(N)CC[19]=CC=CC=C@19)CC(C)C)=O	impurity	DCTI-C-2519	4-amino-N-((2R,3S)-3-amino-2-hydroxy-4-phenylbutyl)-N-isobutylbenzenesulfonamide	169280-56-2	Darunavir Diamino Impurity	C20H29N3O3S	391.53
772	**Darolutamide**	Ketodarolutamide	O=C(C1=NNC(C(C)=O)=C1)N[C@@H](C)CN2N=C(C3=CC=C(C#N)C(Cl)=C3)C=C2	impurity	DCTI-C-2760	(S)-5-acetyl-N-(1-(3-(3-chloro-4-cyanophenyl)-1H-pyrazol-1-yl)propan-2-yl)-1H-pyrazole-3-carboxamide	1297537-33-7	Darolutamide Amide Impurity, ORM-15341	C19H17ClN6O2	396.83
773		Dasatinib Impurity-F	O=C(C1=CN=C(NC2=NC(C)=NC(N3CC[N+](CCO)([O-])CC3)=C2)S1)NC4=C(C)C=CC=C4Cl	metabolite	DCTI-C-1848	4-(6-((5-((2-chloro-6-methylphenyl)carbamoyl)thiazol-2-yl)amino)-2-methylpyri midin-4-yl)-1-(2-hydroxyethyl)piperazine 1-oxide	NA	N-[2-Chloro-6-methylphenyl]-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-5-thiazolecarboxamide N-Oxide.	C22H26ClN7O3S	504.01
774		Dasatinib carboxylic acid ethyl ester	O=C(C1=CN=C(NC2=NC(C)=NC(N3CCN(CC(OCC)=O)CC3)=C2)S1)NC4=C(C)C=CC=C4Cl	impurity	DCTI-C-2217	ethyl 2-(4-(6-((5-((2-chloro-6-methylphenyl)carbamoyl)thiazol-2-yl)amino)-2-methylpyrimidin-4-yl)piperazin-1-yl)acetate.	NA	1-Piperazineacetic acid, 4-[6-[[5-[[(2-chloro-6-methylphenyl)amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-, ethyl ester (9CI, ACI); Ethyl 4-[6-[[5-[[(2-chloro-6-methylphenyl)amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-	C24H28ClN7O3S	530.04

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775		Dasatinib impurity-A	NC1=NC=C(S1)C(NC2=C(C)C=CC=C2Cl)=O	impurity	DCTI-C-1771	2-amino-N-(2-chloro-6-methylphenyl)thiazole-5-carboxamide	NA	Dasatinib Intermediate Impurity	C11H10ClN3OS	267.73
776		Dasatinib Carboxylic Acid	OC(CN(CC1)CCN1C2=NC(C)=NC(NC3=NC=C(C(NC4=C(C)C=CC=C4Cl)=O)S3)=C2)=O	impurity	DCTI-C-1898	2-(4-(6-((5-((2-chloro-6-methylphenyl)carbamoyl)thiazol-2-yl)amino)-2-methylpyrimidin-4-yl)piperazin-1-yl)acetic acid.	NA	1.4-[6-[[5-[[(2-Chloro-6-methylphenyl)amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazineacetic Acid	C22H24ClN7O3S	501.99
777		Dasatinib impurity-E	O=C(C1=CN=C(NC2=NC(C)=NC(N3CCN(C(OC(C)(C)C)=O)CC3)=C2)S1)NC4=C(C)C=CC=C4Cl	Impurity	DCTI-C-1772	tert-butyl 4-(6-((5-((2-chloro-6-methylphenyl)carbamoyl)thiazol-2-yl)amino)-2-methylpyrimidin-4-yl)piperazine-1-carboxylate	NA	N-(2-Chloro-6-methylphenyl)-2-[[2-methyl-6-(1-(4-boc-piperazinyl))-4-pyrimidinyl]amino]-5-thiazolecarboxamide; N-Boc-N-deshydroxyethyl Dasatinib	C25H30ClN7O3S	544.07
778		Dasatinib Impurity-C	O=C(C1=CN=C(NC2=NC(C)=NC(Cl)=C2)S1)NC3=C(C)C=CC=C3Cl	Impurity	DCTI-C-1773	2-((6-chloro-2-methylpyrimidin-4-yl)amino)-N-(2-chloro-6-methylphenyl)thiazole-5-carboxamide	NA	N-(2-Chloro-6-methylphenyl)-2-[(6-chloro-2-methyl-4-pyrimidinyl)amino]-5-thiazolecarboxamide; Dasatinib Impurity 3	C16H13Cl2N5OS	394.27
779		Dasatinib impurity-D	O=C(C1=CN=C(NC2=NC(C)=NC(N3CCNCC3)=C2)S1)NC4=C(C)C=CC=C4Cl.OC(C(F)(F)F)=O	metabolite	DCTI-C-1774	N-(2-chloro-6-methylphenyl)-2-((2-methyl-6-(piperazin-1-yl)pyrimidin-4-yl)amino)thiazole-5-carboxamide TFA salt	NA	N-(2-Chloro-6-methylphenyl)-2-[[2-methyl-6-(1-piperazinyl)-4-pyrimidinyl]amino]-5-thiazolecarboxamide; N-Deshydroxyethyl Dasatinib	C20H22ClN7OS (Free Base) C22H22ClF3N7O2S (TFA Salt	443.95 (Free Base) 540.97 (TFA Salt)
780	**Dasatinib**	Dasatinib Impurity-24	CC1=C(NC(C2=CN=C(NC3=NC(C)=NC(N4CCN(CCO)CC4)=C3)S2)=O)C(N5CCN(CCO)CC5)=CC=C1	Impurity	DCTI-C-296	2-((6-(4-(2-hydroxyethyl)piperazin-1-yl)-2-methylpyrimidin-4-yl)amino)-N-(2-(4-(2-hydroxyethyl)piperazin-1-yl)-6-methylphenyl)thiazole-5-carboxamide	NA	NA	C28H39N9O3S	581.74

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781		N-(3,6-dichloro-2-methylphenyl)-2-((6-(4-(2-hydroxyethyl)piperazin-1-yl)-2-methylpyrimidin-4-yl)amino)thiazole-5-carboxamide	O=C(C1=CN=C(NC2=NC(C)=NC(N3CCN(CCO)CC3)=C2)S1)NC4=C(C)C(Cl)=CC=C4Cl	Impurity	DCTI-C-2512	N-(3,6-dichloro-2-methylphenyl)-2-((6-(4-(2-hydroxyethyl)piperazin-1-yl)-2-methylpyrimidin-4-yl)amino)thiazole-5-carboxamide	2468737-75-7	5-Chloro Dasatinib	C22H25Cl2N7O2S	522.45
782		N-(2-chloro-6-methylphenyl)-2-((2-methyl-6-(4-nitrosopiperazin-1-yl)pyrimidin-4-yl)amino)thiazole-5-carboxamide	O=C(C1=CN=C(NC2=NC(C)=NC(N3CCN(N=O)CC3)=C2)S1)NC4=C(Cl)C=CC=C4C	NDSRI	DCTI-C-3428	N-(2-chloro-6-methylphenyl)-2-((2-methyl-6-(4-nitrosopiperazin-1-yl)pyrimidin-4-yl)amino)thiazole-5-carboxamide	2135905-86-9	N-Deshydroxyethyl N-Nitroso Dasatinib	C20H21ClN8O2S	472.95
783		Hydroxymethyl Dasatinib	O=C(C1=CN=C(NC2=NC(C)=NC(N3CCN(CCO)CC3)=C2)S1)NC4=C(CO)C=CC=C4Cl	IMPURITY	DCTI-C-2318	N-(2-chloro-6-(hydroxymethyl)phenyl)-2-((6-(4-(2-hydroxyethyl)piperazin-1-yl)-2-methylpyrimidin-4-yl)amino)thiazole-5-carboxamide	910297-58-4	NA	C22H26ClN7O3S	504.01
784		Dasatinib Intermediate-1	O=C(C1=CN=C(NC(C2=CC=CC=C2)(C3=CC=CC=C3)C4=CC=CC=C4)S1)NC5=C(CO)C=CC=C5Cl	IMPURITY	DCTI-C-2319	N-(2-chloro-6-(hydroxymethyl)phenyl)-2-(tritylamino)thiazole-5-carboxamide	910297-58-4	NA	C30H24ClN3O2S	526.05
785		Dasatinib Intermediate-2	CC(C)(C)C(OCC1=CC=CC(Cl)=C1NC(C2=CN=C(NC(C3=CC=CC=C3)(C4=CC=CC=C4)C5=CC=CC=C5)S2)=O)=O	IMPURITY	DCTI-C-2320	3-chloro-2-(2-(tritylamino)thiazole-5-carboxamido)benzyl pivalate	910298-41-8	NA	C35H32ClN3O3S	610.17

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786		Dasatinib Intermediate-3	CC(C)(C)C(OCC1=CC=CC(Cl)=C1NC(C2=CN=C(N)S2)=O)=O	IMPURITY	DCTI-C-2321	2-(2-aminothiazole-5-carboxamido)-3-chlorobenzyl pivalate	910297-69-7	NA	C16H18ClN3O3S	367.85
787		Dasatinib Intermediate-4	CC(C)(C)C(OCC1=CC=CC(Cl)=C1NC(C2=CN=C(NC3=NC(C)=NC(Cl)=C3)S2)=O)=O	IMPURITY	DCTI-C-2322	3-chloro-2-(2-((6-chloro-2-methylpyrimidin-4-yl)amino)thiazole-5-carboxamido)benzyl pivalate	910297-70-0	NA	C21H21Cl2N5O3S	494.39
788		Dasatinib Intermediate-5	O=C(C1=CN=C(NC2=NC(C)=NC(Cl)=C2)S1)NC3=C(CO)C=CC=C3Cl	IMPURITY	DCTI-C-2323	2-((6-chloro-2-methylpyrimidin-4-yl)amino)-N-(2-chloro-6-(hydroxymethyl)phenyl)thiazole-5-carboxamide	910297-71-1	NA	C16H13Cl2N5O2S	410.27
789	**Decitabine**	Decitabine Isomer-3	O=C(NC1CC(O)C(O)CO1)/N=C(N)/N.CC(O)=O	Impurity	DCTI-C-2524	1-(diaminomethylene)-3-((2R, 4S, 5R)-4,5-dihydroxytetrahydro-2H-pyran-2-yl)urea acetate	NA	NA	C7H14N4O4 (Free Base); C9H18N4O6 (Acetate)	218.21 (Free Base); 278.27 (Acetate)
790		Decitabine Hydrolyte. Acetate	O[C@H]1C[C@H](NC(/N=C(NC([H])=O)/N)=O)O[C@@H]1CO.OC(C)=O	IMPURITY	DCTI-C-2592	N-((Z)-N'-(((2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)carbamoyl)carbamimidoyl)formamide acetate	NA	N-Formyl Impurity of Decitabine	C8H14N4O5(Free base) /C10H18N4O7 (Acetate)	246.22(free base) /306.27 (Acetate)
791		Deferasirox Dimethoxy Impurity	COC1=CC=CC=C1C(NC(C2=C(OC)C=CC=C2)=O)=O	Impurity	DCTI-C-297	2-methoxy-N-(2-methoxybenzoyl)benzamide	858425-08-8	Di-o-anisamide (5CI); Deferasirox Impurity 6	C16H15NO4	285.3

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792	Deferasirox	2-(5-chloro-2-hydroxyphenyl)-4H-benzo[e][1,3]oxazin-4-one	O=C1N=C(C2=C(O)C=CC(Cl)=C2)OC3=CC=CC=C31	Impurity	DCTI-C-299	2-(5-chloro-2-hydroxyphenyl)-4H-benzo[e][1,3]oxazin-4-one	24798-50-3	NA	C14H8ClNO3	273.67
793		6-chloro-2-(2-hydroxyphenyl)-4H-benzo[e][1,3]oxazin-4-one	O=C1N=C(C2=C(O)C=CC=C2)OC3=CC=C(Cl)C=C31	Impurity	DCTI-C-301	6-chloro-2-(2-hydroxyphenyl)-4H-benzo[e][1,3]oxazin-4-one	26276-85-7	NA	C14H8ClNO3	273.67
794		DEF-1 Dimer Impurity	OC1=CC=C(SC2=CC=C(O)C(C(OC3=CC=CC=C43)=NC4=O)=C2)C=C1C(OC5=CC=CC=C65)=NC6=O	Impurity	DCTI-C-3053	2,2'-(thiobis(6-hydroxy-3,1-phenylene))bis(4H-benzo[e][1,3]oxazin-4-one)	1688656-86-1	Deferasirox Impurity 17	C28H16N2O6S	508.5
795	Dehydroprogesterone	6-Dehydroprogesterone	C[C@@]12C(C=C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@@H]4C(C)=O)=CC(CC1)=O	impurity	DCTI-C-1221	(8S,9S,10R,13S,14S,17S)-17-acetyl-10,13-dimethyl-1,2,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	1162-56-7	NA	C21H28O2	312.45
796		4-Epidemeclocycline	O=C1C(C(N)=O)=C(O)[C@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC(Cl)=C3[C@H]4O)=O)[C@]4([H])C2	Impurity	DCTI-C-711	(4R,4aS,5aS,6S,12aS)-7-chloro-4-(dimethylamino)-3,6,10,12,12a-pentahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	14206-59-8	4-Epidemeclocycline EP Impurity B	C21H21ClN2O8	464.86
797		Demeclocycline Impurity F	OC1=C2C(C=C(C[C@]([C@@H](N(C)C)C(O)=C(C(N)=O)C3=O)([H])[C@]3(O)C4=O)C4=C2O)=C(Cl)C=C1	impurity	DCTI-C-1404	(4R,4aS,12aS)-7-chloro-4-(dimethylamino)-3,10,11,12a-tetrahydroxy-1,12-dioxo-1,4,4a,5,12,12a-hexahydrotetracene-2-carboxamide	81181-91-1	4-Epianhydrodemeclocycline	C21H19ClN2O7	446.84
798		Demeclocycline Impurity G	OC1=C2C(C=C(C[C@]([C@H](N(C)C)C(O)=C(C(N)=O)C3=O)([H])[C@]3(O)C4=O)C4=C2O)=C(Cl)C=C1	impurity	DCTI-C-1405	(4S,4aS,12aS)-7-chloro-4-(dimethylamino)-3,10,11,12a-tetrahydroxy-1,12-dioxo-1,4,4a,5,12,12a-hexahydrotetracene-2-carboxamide	22688-73-9	Anhydrodemeclocycline; Anhydrodemethylchlortetracycline	C21H19ClN2O7	446.84

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
799	Demeclocycline	Demethyltetracycline, Impurity-A (EP-9.0)	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC=C3[C@H]4O)=O)[C@]4([H])C2	Impurity	DCTI-C-712	(4S,4aS,5aS,6S,12aS)-4-(dimethylamino)-3,6,10,12,12a-pentahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	987-02-0	Demeclocycline Impurity A; CL 22415; Floricina	C21H22N2O8	430.41
800		4-Epidemethyltetracycline	O=C1C(C(N)=O)=C(O)[C@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC=C3[C@H]4O)=O)[C@]4([H])C2	Impurity	DCTI-C-713	(4R,4aS,5aS,6S,12aS)-4-(dimethylamino)-3,6,10,12,12a-pentahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	129044-45-7	Epi-DMTC	C21H22N2O8	430.41
801		Desogestrel Impurity C	CC[C@]12CC([C@@]3([H])[C@](CCC4=CCCC[C@]34[H])([H])[C@]1([H])CCC2=O)=C	Impurity	DCTI-C-1598	(8S,9S,10R,13S,14S)-13-ethyl-11-methylene-1,2,3,6,7,8,9,10,11,12,13,14,15,16-tetradecahydro-17H-cyclopenta[a]phenanthren-17-one	NA	NA	C20H28O	284.44
802		Desogestrel impurity D	CC[C@]12CC([C@@]3([H])[C@](CCC4=CC(CC[C@]34[H])=O)([H])[C@]1([H])CC[C@@]2(O)C#C)=C	metabolite	DCTI-C-1599	(8S,9S,10R,13S,14S,17R)-13-ethyl-17-ethynyl-17-hydroxy-11-methylene-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C22H28O2	324.46
803		Desogestrel Impurity A	CC[C@]12CC([C@@]3([H])[C@](CC[C@@]4([H])C=CCC[C@]34[H])([H])[C@]1([H])CC[C@@]2(O)C#C)=C	impurity	DCTI-C-1596	(5S,8S,9R,10S,13S,14S,17R)-13-ethyl-17-ethynyl-11-methylene-2,5,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-ol	NA	(5α,17α)-13-Ethyl-11-methylene-18,19-dinorpregn-3-en-20-yn-17-ol, Desogestrel Δ3-isomer, Desogestrel EP Impurity A	C22H30O	310.48
804		Desogestrel Impurity B	C[C@]12CC([C@@]3([H])[C@](CCC4=CCCC[C@]34[H])([H])[C@]1([H])CC[C@@]2(O)C#C)=C	impurity	DCTI-C-1597	(8S,9S,10R,13S,14S,17R)-17-ethynyl-13-methyl-11-methylene-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-ol	NA	Desogestrel EP Impurity B, 11-methylidene-19-nor-17α-pregn-4-en-20-yn-17-ol	C21H28O	296.45

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
805		Desogestrel impurity E	CC[C@]12CC([C@@]3([H])[C@](CCC4=C[C@@H](O)CC[C@]34[H])([H])[C@]1([H])CC[C@@]2(O)C#C)=C	metabolite	DCTI-C-1600	(3S,8S,9S,10R,13S,14S,17R)-13-ethyl-17-ethynyl-11-methylene-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-3,17-diol	NA	NA	C22H30O2	326.48
806		Desogestrel Related Compound B	C(C)[C@@]12[C@]([C@]3([C@](C(=C)C1)([C@@]4(C(CC3)=CC(O)CC4)[H])[H])[H])(CC[C@]2(C#C)O)[H]	metabolite	DCTI-C-3070	(8S,9S,10R,13S,14S,17R)-13-ethyl-17-ethynyl-11-methylene-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-3,17-diol	869627-85-0	Hydroxy desogestrel (mixture of isomers)	C22H30O2	326.48
807	**Deucravacitinib**	3-(2-methoxy-3-nitrophenyl)-1-methyl-1H-1,2,4-triazole	COC1=C(C2=NN(C)C=N2)C=CC=C1[N+]([O-])=O	Impurity	DCTI-C-3179	3-(2-methoxy-3-nitrophenyl)-1-methyl-1H-1,2,4-triazole	1609394-08-2	NA	C10H10N4O3	234.22
808		3-(3-bromo-2-methoxyphenyl)-1-methyl-1H-1,2,4-triazole	BrC1=CC=CC(C2=NN(C)C=N2)=C1OC	IMPURITY	DCTI-C-3204	3-(3-bromo-2-methoxyphenyl)-1-methyl-1H-1,2,4-triazole	2222717-56-6	NA	C10H10BrN3O	268.11
809		Dexamethasone Formate	O=C1C=C[C@]2(C)[C@@]3(F)[C@@H](O)C[C@]4(C)[C@](C(O)=O)(OC=O)[C@H](C)C[C@@]4([H])[C@]3([H])CCC2=C1	Impurity	DCTI-C-1741	(8S,9R,10S,11S,13S,14S,16R,17R)-9-fluoro-17-(formyloxy)-11-hydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	NA	Dexamethasone 17-Formyloxy-17-Acid; 17β-Carboxy-17α-formyloxy Dexamethasone, Dexamethasone impurity 5	C22H27FO6	406.45
810		21-Deoxydexamethasone	O=C([C@@]1(O)[C@H](C)CC2C3CCC4=CC(C=C[C@]4(C)[C@@]3(F)[C@@H](O)C[C@]12C)=O)C	impurity	DCTI-C-2000	(9R,10S,11S,13S,16R,17R)-17-acetyl-9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	426-15-3	16α-Methyl-11β, 17α-dihydroxy-9α-fluoropregna-1,4-diene-3,20-dione; 21-Dehydrodexamethasone;(11β,16α)-9-Fluoro-11,17-dihydroxy-16-methylpregna-1,4-diene-3,20-dione;9-Fluoro-11β,17-dihydroxy-16α-methylpregna-1,4-diene-3,20-dione; Dexamethasone	C22H29FO4	376.47

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
811	Dexamethasone and Dexamethasone Sodium Phosphate	Dexamethasone Sodium Phosphate EP Impurity G	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@@H](C)[C@]4(O)C(O)=O)=C1	impurity	DCTI-C-1299	(8S,9R,10S,11S,13S,14S,16R,17R)-9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	37927-01-8	Dexamethasone Acid; Dexamethasone Imp-2	C21H27FO5	378.44
812		Dexamethasone Sodium Phosphate Impurity F	O[C@H]1C[C@@]2(C)C(C[C@@H](C)C(COP(O)(O)=O)(O)C2=O)C3[C@@]1(F)[C@@](C(CC3)=C4)(C)C=CC4=O	Impurity	DCTI-C-130	((3R,10aS,10bR,11S,12aS)-10b-fluoro-2,11-dihydroxy-3,10a,12a-trimethyl-1,8-dioxo-1,2,3,4,4a,4b,5,6,8,10a,10b,11,12,12a-tetradecahydrochrysen-2-yl)methyl dihydrogen phosphate	NA	NA	C22H30FO8P	472.45
813		Dexamethasone sulfite adduct	O=C([C@@]1([C@@]2(C)C[C@@H]([C@@]3([C@]4(C)C(CC[C@H]3[C@@H]2C[C@H]1C)=CC(CC4S(=O)(O)=O)=O)F)O)O)COP(O)(O)=O	impurity	DCTI-C-1447	(8S,9R,10S,11S,13S,14S,16R,17R)-9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-3-oxo-17-(2-(phosphonooxy)acetyl)-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-1-sulfonic acid	763865-71-0	Dexamethasone Sodium Phosphate Bisulfate Adduct: Disodium 9-fluoro-11a,17-dihydroxy-16a-methyl-3-oxo-Io-sulfopregn-4-ene-21-Phosphate	$C_{22}H_{32}FO_{11}PS$	554.52
814		Dexamethasone Sodium Phosphate Impurity D	O[C@H]1C[C@@]2(C)C(C[C@H](C)C([C@]2(COP(O)(O)=O)O)=O)C3[C@@]1(F)[C@@](C(CC3)=C4)(C)C=CC4=O	Impurity	DCTI-C-129	((1S,3S,10aS,10bR,11S,12aS)-10b-fluoro-1,11-dihydroxy-3,10a,12a-trimethyl-2,8-dioxo-1,2,3,4,4a,4b,5,6,8,10a,10b,11,12,12a-tetradecahydrochrysen-1-yl)methyl dihydrogen phosphate	1202002-01-4	NA	C22H30FO8P	472.45
815		Dexamethasone sodium phosphate diester (Impurity I)	C[C@@]12[C@](C[C@@H](C)[C@]2(O)C(COP(OCC([C@@]3(O)[C@H](C)C[C@]4([H])[C@]3(C)C[C@H](O)[C@@]5(F)[C@@]4([H])CCC([C@]5(C)C=C6)=CC6=O)=O)(O)=O)=O)([H])[C@]7([H])CCC8=CC(C=C[C@]8(C)[C@@]7(F)[C@@H](O)C1)=O	impurity	DCTI-C-1248	bis(2-((8S,9R,10S,11S,13S,14S,16R,17R)-9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl) hydrogen phosphate	NA	NA	C44H57F2O12P	846.9

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
816		Dexamethasone Impurity	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@@H](C)[C@]4(O)C(C(O)O)=O)=C1	Impurity	DCTI-C-202	(8S,9R,10S,11S,13S,14S,16R,17R)-17-(2,2-dihydroxyacetyl)-9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	4619-61-8	NA	C22H29FO6	408.47
817	**Dexlansoprazole**	Dexlansoprazole Impurity-II	CC1=C(OCC(F)(F)F)C=CN2C1=C(C(C3=C(C)C(OCC(F)(F)F)=CC=N3)SC4=NC5=CC=CC=C5N4)N6C7=CC=CC=C7N=C62	Impurity	DCTI-C-749	12-(((1H-benzo[d]imidazol-2-yl)thio)(3-methyl-4-(2,2,2-trifluoroethoxy)pyridin-2-yl)methyl)-1-methyl-2-(2,2,2-trifluoroethoxy)benzo[4',5']imidazo[2',1':2,3]imidazo[1,5-a]pyridine	NA	Cyclised dessulphur-sulphide adduct	C32H24F6N6O2S	670.63
818		Dexmedetomidine Potential impurity-4	CC(C1=C(C)C(C)=CC=C1)(O)C2=CN=CN2	Impurity	DCTI-C-408	1-(2,3-dimethylphenyl)-1-(1H-imidazol-5-yl)ethan-1-ol	86347-12-8	Potential impurity-4	C13H16N2O	216.28
819		Triphenylmethane impurity	C1(C(C2=CC=CC=C2)C3=CC=CC=C3)=CC=CC=C1	impurity	DCTI-C-2070	triphenylmethane	519-73-3	Medetomidine Impurity 31.	C19H16	244.34
820		Dexmedetomidine Potential impurity 5	C=C(C1=C(C)C(C)=CC=C1)C2=CN=CN2	Impurity	DCTI-C-409	5-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole	1021949-47-2	Potential impurity-5	C13H14N2	198.27
821		3-Hydroxy N-methyl-dexmedetomidine	CC1=C(C(C)C2=CN(C)C=N2)C=CC=C1CO	metabolite	DCTI-C-2001	(2-methyl-3-(1-(1-methyl-1H-imidazol-4-yl)ethyl)phenyl)methanol	NA	NA	C14H18N2O	230.31

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
822	Dexmedetomidine	3-Carboxy N-methyl-dexmedetomidine Lithium Salt	CC1=C(C(C)C2=CN(C)C=N2)C=CC=C1C(O[Li])=O	impurity	DCTI-C-2002	lithium 2-methyl-3-(1-(1-methyl-1H-imidazol-4-yl)ethyl)benzoate	NA	NA	C14H16N2O2 (Free base) C14H15LiN2O2 (Salt)	244.29 (Free base) 250.23 (Salt)
823		Dexmedetomidine N-Methyl ester Impurity	O=C(OC)C1=CC=CC(C(C)C2=CN=CN2C)=C1C	impurity	DCTI-C-2003	methyl 2-methyl-3-(1-(1-methyl-1H-imidazol-5-yl)ethyl)benzoate	NA	Dexmedetomidine N-Methyl ester Other Isomer Impurity.	C15H18N2O2	258.32
824		3-Carboxy-dexmedetomidine	CC1=C(C(C)C2=CNC=N2)C=CC=C1C(O)=O	metabolite	DCTI-C-2004	3-(1-(1H-imidazol-4-yl)ethyl)-2-methylbenzoic acid	NA	Benzoic acid, 3-[1-(1H-imidazol-4-yl)ethyl]-2-methyl- (9CI)	C13H14N2O2	230.27
825		Dexmedetomidine Potential impurity	C=C(C1=C(C)C(C)=CC=C1)C2=CN(CC3=CC=CC=C3)C=N2	Impurity	DCTI-C-410	1-benzyl-4-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole	1311376-20-1	Dexmedetomidine Impurity	C20H20N2	288.39
826		Dexmedetomidine Potential Impurity-1	CC(C(C)=CC=C1)=C1C(C)(O)C2=CN=CN2CC3=CC=CC=C3	Impurity	DCTI-C-454	1-(1-benzyl-1H-imidazol-5-yl)-1-(2,3-dimethylphenyl)ethan-1-ol	2250243-44-6	Potential Impurity-1	C20H22N2O	306.41
827		Dexmedetomidine Potential Impurity-6 Hydrochloride	CC(C(C)=CC=C1)=C1C(C2=CN=CN2CC3=CC=CC=C3)=C.Cl	Impurity	DCTI-C-456	1-benzyl-5-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole hydrogen chloride	2250243-56-0 (Free base)	Potential Impurity-6 Hydrochloride	20H21ClN2 (HCl Salt) C20H20N2 (Free Base)	324.85 (HCl Salt) 288.39 (Free Base)
828		Dexmedetomidine Potential Impurity-3 Hydrochloride	CC(C(C)=CC=C1)=C1C(C)C2=CN=CN2CC3=CC=CC=C3.Cl	Impurity	DCTI-C-457	1-benzyl-5-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole hydrogen chloride	2250242-52-3 (Free base)	Potential Impurity-3 Hydrochloride	20H23ClN2 (HCl Salt) C20H22N2 (Free Base)	326.87 (HCl Salt) 290.41 (Free Base)

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829		Dexmedetomidine Potential Impurity-8	CC(C(C)=CC=C1)=C1C(C)C2=CN=CN2CC	Impurity	DCTI-C-458	5-(1-(2,3-dimethylphenyl)ethyl)-1-ethyl-1H-imidazole	2250243-24-2	Potential Impurity-8	C15H20N2	228.34
830		Dexmedetomidine Potential impurity-7 (Mixture of isomers)	CC(C1CCCC(C)C1C)C2=CNC=N2.Cl	Impurity	DCTI-C-466	4-(1-(2,3-dimethylcyclohexyl)ethyl)-1H-imidazole hydrogen chloride	NA	Potential impurity-7	C13H23ClN2 (HCl Salt) C13H22N2 (Free Base)	249.79 (HCl Salt) 206.33 (Free Base)
831		(1-benzyl-1H-imidazol-5-yl)(2,3-dimethylphenyl) methanone	CC1=C(C)C=CC=C1C(C2=CN=CN2CC3=CC=CC=C3)=O	Impurity	DCTI-C-523	(1-benzyl-1H-imidazol-5-yl)(2,3-dimethylphenyl)methanone	NA	NA	C19H18N2O	290.37
832		Dexmedetomidine Impurity-6 Other Isomer	C=C(C1=C(C)C(C)=CC=C1)C(N=C2)=CN2CC3=CC=CC=C3	Impurity	DCTI-C-524	1-benzyl-4-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole	NA	NA	C20H20N2	288.39
833		4-(1-(2,3-dimethylphenyl)ethyl)-1-ethyl-1H-imidazole	CC1=CC=CC(C(C)C2=CN(CC)C=N2)=C1C	impurity	DCTI-C-1156	4-(1-(2,3-dimethylphenyl)ethyl)-1-ethyl-1H-imidazole	NA	Dexmedetomidine potential impurity-8 other isomer	C15H20N2	228.34
834		Dexmedetomidine Potential Impurity-3 hydrochloride other isomer	CC(C1=C(C)C(C)=CC=C1)C2=CN(C=N2)CC3=CC=CC=C3.Cl	impurity	DCTI-C-1157	1-benzyl-4-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole	2197018-01-0 (Free Base)	NA	C20H22N2	290.41
835		Dexmedetomidine Impurity II	OC(C1=CC=CC(C)=C1C)C2=CN(C(C3=CC=CC=C3)(C4=CC=CC=C4)C5=CC=CC=C5)C=N2	Impurity	DCTI-C-2904	(2,3-dimethylphenyl)(1-trityl-1H-imidazol-4-yl)methanol	176721-01-0	NA	C31H28N2O	444.58

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836		Bromomedetomide impurity	CC1=C(C(C2=C(Br)NC=N2)C)C=CC=C1C	impurity	DCTI-C-2209	5-bromo-4-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole	na	Bromo medetomide impurity	C13H15BrN2	279.18
837	Dexrazoxane	Dexrazoxane Impurity-C	O=C(N1)CN(CC(C)N(CC(N)=O)CC(O)=O)CC1=O	impurity	DCTI-C-2005	N-(2-amino-2-oxoethyl)-N-(1-(3,5-dioxopiperazin-1-yl)propan-2-yl)glycine	153042-69-4	Glycine, N-(2-amino-2-oxoethyl)-N-[2-(3,5-dioxo-1-piperazinyl)-1-methylethyl]-	C11H18N4O5	286.29
838		Dexrazoxane Impurity-A	CC(N(CC(O)=O)CC(O)=O)CN(CC(O)=O)CC(O)=O	impurity	DCTI-C-1900	2,2',2'',2'''-(propane-1,2-diylbis(azanetriyl))tetraacetic acid	NA	Acetic acid, (propylenedinitrilo)tetra-(6CI,7CI,8CI); N,N'-(1-Methyl-1,2-ethanediyl)bis[N-(carboxymethyl)glycine]; (±)-1,2-Diaminopropanetetraacetic acid; 1,2-Diaminopropane-N,N,N',N'-tetraacetic acid;	C11H18N2O8	306.27
839		Dexrazoxane Impurity-D	O=C(O)CN(CC(N)=O)CC(N1CC(NC(C1)=O)=O)C	IMPURITY	DCTI-C-2442	N-(2-amino-2-oxoethyl)-N-(2-(3,5-dioxopiperazin-1-yl)propyl)glycine	153042-70-7	NA	C11H18N4O5	286.29
840	Dezocine	(5R,11S,13R)-3-methoxy-5-methyl-5,6,7,8,9,10,11,12-octahydro-5,11-methanobenzo[10]annulen-13-amine	C[C@@]1(CCCCC[C@H]([C@H]1N)C2)C3=C2C=CC(OC)=C3	impurity	DCTI-C-1111	(5R,11S,13R)-3-methoxy-5-methyl-5,6,7,8,9,10,11,12-octahydro-5,11-methanobenzo[10]annulen-13-amine	63230-09-1	Na	C17H25NO	259.39
841		(5R,11S,13R)-13-amino-5-methyl-5,6,7,8,9,10,11,12-octahydro-5,11-methanobenzo[10]annulen-3-ol	OC1=CC([C@]2(CCCCC[C@H]([C@H]2N)C3)C)=C3C=C1	impurity	DCTI-C-1112	(5R,11S,13R)-13-amino-5-methyl-5,6,7,8,9,10,11,12-octahydro-5,11-methanobenzo[10]annulen-3-ol	NA	Na	C16H23NO	245.37
842	Diazoxide	2-Amino-5-chlorobenzenesulfonic Acid hydrochloride	ClC1=CC=C(N)C(S(=O)(O)=O)=C1.Cl	impurity	DCTI-C-947	2-amino-5-chlorobenzenesulfonic acid hydrochloride	2368872-22-2 133-74-4 (Free Base)	NA	C6H6ClNO3S (Free Base) C6H7Cl2NO3S (Salt	207.63 (Free Base) 244.09 (Salt)

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843	Dibutyric acid	Para Phenyl Dibutyric Acid	OC(CCCC1=CC=C(CCCC(O)=O)C=C1)=O	Impurity	DCTI-C-726	4,4'-(1,4-phenylene)dibutyric acid	22339-62-4	NA	C14H18O4	250.29
844		Ortho Phenyl Dibutyric Acid	OC(CCCC1=CC=CC=C1CCCC(O)=O)=O	Impurity	DCTI-C-727	4,4'-(1,2-phenylene)dibutyric acid	64870-96-8	NA	C14H18O4	250.29
845		Ortho Phenyl Dibutyric Acid Anhydride	O=C1OC(CCCC2=CC=CC=C2CCC1)=O	Impurity	DCTI-C-758	1,2,3,7,8,9-hexahydrobenzo[f][1]oxacycloundecine-4,6-dione	NA	NA	C14H16O3	232.28
846	Dihydrolysergamide	Dihydroergotamine Impurity D	[H][C@]12C[C@H](CN([C@@]1(CC3=CNC4=C3C2=CC=C4)[H])C)C(N[C@@]5(C)O[C@@]6(N([C@H](C(N7CCC[C@]76[H])=O)CC8=CC=CC=C8)C5=O)O)=O	impurity	DCTI-C-1182	(6aR,9R,10aR)-N-((2S,5S,10aS,10bS)-5-benzyl-10b-hydroxy-2-methyl-3,6-dioxooctahydro-8H-oxazolo[3,2-a]pyrrolo[2,1-c]pyrazin-2-yl)-7-methyl-4,6,6a,7,8,9,10,10a-octahydroindolo[4,3-fg]quinoline-9-carboxamide	5550-75-4	NA	C33H37N5O5	583.68
847		Dihydroergotamine Impurity S2	NC1=C2C([C@@]3([H])C[C@@H](C(N[C@](C(N4[C@H]5CC6=CC=CC=C6)=O)(C)O[C@@]4(O)[C@]7([H])CCCN7C5=O)=O)CN(C)[C@]3([H])CC2=O)=CC=C1	Impurity	DCTI-C-2630	(2R,4aR,10bR)-7-amino-N-((2R,5S,10aS,10bS)-5-benzyl-10b-hydroxy-2-methyl-3,6-dioxooctahydro-8H-oxazolo[3,2-a]pyrrolo[2,1-c]pyrazin-2-yl)-4-methyl-6-oxo-1,2,3,4,4a,5,6,10b-octahydrobenzo[f]quinoline-2-carboxamide	81149-12-4	NA	C32H37N5O6	587.68
848		Dihydrolysergamide	O=C([C@@H]1C[C@@]2([H])[C@](CC3=CNC4=C3C2=CC=C4)([H])N(C)C1)N	Impurity	DCTI-C-2661	(6aR,9R,10aR)-7-methyl-4,6,6a,7,8,9,10,10a-octahydroindolo[4,3-fg]quinoline-9-carboxamide	2410-19-7	DIHYDROERGOTAMINE IMPURITY S1; (8β)-6-Methylergoline-8-carboxamide; Ergoline-8-carboxamide,6-methyl-, (8b)-(9CI)	C16H19N3O	269.35

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849		Difluoroprednisolone	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]4(O)C(CO)=O)=C1	impurity	DCTI-C-2006	(6R,9R,10S,11S,13S,17R)-6,9-difluoro-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	806-29-1	6α,9α-Difluoroprednisolone; 6α,9-difluoro-11β,17,21-trihydroxy-pregna-1,4-diene-3,20-dione; 6-alpha-Fluoro-isoflupredone; NSC 77021	C21H26F2O5	396.43
850		Difluoroprednisolone Trimethylortobutyrate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]45C(CO[C@@](OC)(CCC)O5)=O)=C1	impurity	DCTI-C-2007	(2'S,6R,9R,10S,11S,13S,17S)-6,9-difluoro-11-hydroxy-2'-methoxy-10,13-dimethyl-2'-propyl-7,8,9,10,11,12,13,14,15,16-decahydrospiro[cyclopenta[a]phenanthrene-17,4'-[1,3]dioxane]-3,5'(6H)-dione.	23640-92-8	Pregna-1,4-diene-3,20-dione, 6,9-difluoro-11-hydroxy-17,21-[(1-methoxybutylidene)bis(oxy)]-, (6α,11β); Orthobutyric acid, methyl ester, cyclic 17,21-ester with 6α,9-difluoro-11β,17,21-trihydroxypregna-1,4-diene-3,20-dione	C26H34F2O6	480.55
851		Difluoroprednisolone 11-butyrate, 21-Acetate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](OC(CCC)=O)C[C@@]4(C)C3CC[C@]4(O)C(COC(C)=O)=O)=C1	impurity	DCTI-C-2008	(6S,9R,10S,11S,13S,17R)-17-(2-acetoxyacetyl)-6,9-difluoro-17-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-11-yl butyrate	NA	NA	C27H34F2O7	508.56
852		Difluoroprednisolone 21-butyrate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]4(O)C(COC(CCC)=O)=O)=C1	impurity	DCTI-C-2009	2-((6R,9R,10S,11S,13S,17R)-6,9-difluoro-11,17-dihydroxy-10,13-dimethyl-3-oxo-6,7,8,9, 10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl butyrate	NA	6α,9α-Difluoroprednisolone 21-butyrate	C25H32F2O6	466.52
853		Difluoroprednisolone 17-Butyrate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]4(OC(CCC)=O)C(CO)=O)=C1	impurity	DCTI-C-2010	(6S,9R,10S,11S,13S,17R)-6,9-difluoro-11-hydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl butyrate	23640-96-2	(6α,11β)-6,9-Difluoro-11,21-dihydroxy-17-(1-oxobutoxy)pregna-1,4-diene-3,20-dione; 6α,9-Difluoro Prednisolone 17-Butyrate; 21-Desacetyl Difluprednate.	C25H32F2O6	466.52

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854		Difluoroprednisolone-17,21-Diacetate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]4(OC(C)=O)C(COC(C)=O)=O)=C1	impurity	DCTI-C-2011	2-((6S,9R,10S,11S,13S,17R)-17-acetoxy-6,9-difluoro-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	23641-05-6	(6α,11β)-17,21-Bis(acetyloxy)-6,9-difluoro-11-hydroxy-pregna-1,4-diene-3,20-dione; 6α,9-Difluoro-11β,17,21-trihydroxy-pregna-1,4-diene-3,20-dione-17,21-Diacetate; [2-(17-Acetyloxy-6,9-difluo ro-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,11,12,14,15,16-octahydrocyclopenta[a]phenanthren-17-yl)-2-	C25H30F2O7	480.5
855		Difluoroprednisolone 17-Acetate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]4(OC(C)=O)C(CO)=O)=C1	impurity	DCTI-C-2012	(6S,9R,10S,11S,13S,17R)-6,9-difluoro-11-hydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl acetate	23674-85-3	Pregna-1,4-diene-3,20-dione,6α,9-difluoro-11β,17,21-trihydroxy-,17-acetate;Difluoro prednisolone (17-acetate); (6α,11β)-17-(Acetyloxy)-6,9-difluoro-11,21-dihydroxypregna-1,4-diene-3,20-dione;6α,9α-Difluoro-11β,17,21-trihydroxypregna-1,4-diene-3,20-dione-17-acetate;6α,9α-Difluoro	C23H28F2O6	438.47
856		Difluoroprednisolone 21-Acetate	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC[C@]4(O)C(COC(C)=O)=O)=C1	impurity	DCTI-C-2013	2-((6R,9R,10S,11S,13S,17R)-6,9-difluoro-11,17-dihydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	52-70-0	6α,9α-Difluoroprednisolone 21-Acetate; 6α,9-Difluoro-11β,17,21-trihydroxypregna-1,4-diene-3,20-dione; (6α,11β)-21-(Acetyloxy)-6,9-difluoro-11,17-dihydroxypregna-1,4-diene-3,20-dione;	C23H28F2O6	438.47
857	**Difluprednate**	Difluprednate Z-enol aldehyde impurity	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CC/C4=C(C=O)/O)=C1	IMPURITY	DCTI-C-3207	(Z)-2-((6S,9R,10S,11S,13S)-6,9-difluoro-11-hydroxy-10,13-dimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclo penta[a]phenanthren-17-ylidene)-2-hydroxyacetaldehyde	NA	NA	C21H24F2O4	378.42
858		6-Hydroxy Difluprednate	CCCC(O[C@]1(C(COC(C)=O)=O)CCC2C3C[C@H](O)C4=CC(C=C[C@]4(C)[C@@]3(F)[C@@H](O)C[C@]12C)=O)=O	IMPURITY	DCTI-C-2443	(6S,9R,10S,11S,13S,17R)-17-(2-acetoxyacetyl)-9-fluoro-6,11-dihydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl butyrate	na	NA	C27H35FO8	506.57
859		Difluprednate Aldehyde Impurity (Mixture of aldehyde and the hydrated form)	CCCC(O[C@]1(C(C=O)=O)CCC2C3C[C@H](F)C4=CC(C=C[C@]4(C)[C@@]3(F)[C@@H](O)C[C@]12C)=O)=O	IMPURITY	DCTI-C-2444	(6S,9R,10S,11S,13S,17R)-6,9-difluoro-11-hydroxy-10,13-dimethyl-3-oxo-17-(2-oxoacetyl)-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl butyrate	na	NA	C25H30F2O6 (aldehyde form); C25H32F2O7(hydrated form)	464.51 (aldehyde form); 482.52(aldehyde form)

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860		Difluprednate 11-Keto Impurity	CCCC(O[C@]([C@@]1(C)C2)(C(COC(C)=O)=O)CCC1C3C[C@H](F)C4=CC(C=C[C@]4(C)[C@@]3(F)C2=O)=O)=O	IMPURITY	DCTI-C-2445	(6S,9R,10S,13S,17R)-17-(2-acetoxyacetyl)-6,9-difluoro-10,13-dimethyl-3,11-dioxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl butyrate	na	NA	C27H32F2O7	506.54
861		Des Acetyl Di des Amino Methyl Diltiazem	O=C1NC2=CC=CC=C2S[C@@H](C3=CC=C(OC)C=C3)[C@H]1O	Impurity	DCTI-C-285	(2S,3S)-3-hydroxy-2-(4-methoxyphenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4(5H)-one	42399-49-5	NA	C16H15NO3S	301.36
862		Diltiazem N-Oxide	O=C1N(CC[N+](C)([O-])C)C2=CC=CC=C2S[C@@H](C3=CC=C(OC)C=C3)[C@H]1OC(C)=O	Impurity	DCTI-C-122	2-((2S,3S)-3-acetoxy-2-(4-methoxyphenyl)-4-oxo-3,4-dihydrobenzo[b][1,4]thiazepin-5(2H)-yl)-N,N-dimethylethan-1-amine oxide	142843-04-7	NA	C22H26N2O5S	430.52
863		Des Acetyl Diltiazem	O=C1N(CCN(C)C)C2=CC=CC=C2S[C@@H](C3=CC=C(OC)C=C3)[C@H]1O	metabolite	DCTI-C-123	(2S,3S)-5-(2-(dimethylamino)ethyl)-3-hydroxy-2-(4-methoxyphenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4(5H)-one	42399-40-6	NA	C20H24N2O3S	372.48
864	**Diltiazem**	Diltiazem Sulphoxide	O=C([C@H](OC(C)=O)[C@@H]1C2=CC=C(OC)C=C2)N(CCN(C)C)C3=CC=CC=C3S1=O	Impurity	DCTI-C-121	(2S,3S)-5-(2-(dimethylamino)ethyl)-2-(4-methoxyphenyl)-1-oxido-4-oxo-2,3,4,5-tetrahydrobenzo[b][1,4]thiazepin-3-yl acetate	370094-12-5	NA	C22H26N2O5S	430.52

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865		Diltiazem EP Impurity G	O=C1N(CCNC)C2=CC=CC=C2S[C@@H](C3=CC=C(OC)C=C3)[C@H]1O	Impurity	DCTI-C-147	(2S,3S)-3-hydroxy-2-(4-methoxyphenyl)-5-(2-(methylamino)ethyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4(5H)-one	86408-44-8	O-Desacetyl-N-desmethyl Diltiazem	C19H22N2O3S	358.46
866		N-Des methyl Diltiazem	O=C1N(CCNC)C2=CC=CC=C2S[C@@H](C3=CC=C(OC)C=C3)[C@H]1OC(C)=O	metabolite	DCTI-C-148	(2S,3S)-2-(4-methoxyphenyl)-5-(2-(methylamino)ethyl)-4-oxo-2,3,4,5-tetrahydrobenzo[b][1,4]thiazepin-3-yl acetate	86408-45-9	N-Monodesmethyl diltiazem; Diltiazem EP Impurity D	C21H24N2O4S	400.49
867		N-Nitroso Desmethyl Diltiazem	O=C1[C@@H]([C@@H](SC2=C(N1CCN(N=O)C)C=CC=C2)C3=CC=C(OC)C=C3)OC(C)=O	NDSRI	DCTI-C-3746	(2S,3S)-2-(4-methoxyphenyl)-5-(2-(methyl(nitroso)amino)ethyl)-4-oxo-2,3,4,5-tetrahydrobenzo[b][1,4]thiazepin-3-yl acetate	NA	N-Nitroso Desmethyl Diltiazem mixture of isomer	C21H23N3O5S	429.49
868	**Dimethomorph**	(Z)-Dimethomorph	O=C(N1CCOCC1)/C=C(C2=CC=C(Cl)C=C2)\C3=CC=C(OC)C(OC)=C3	Impurity	DCTI-C-1330	(Z)-3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-morpholinoprop-2-en-1-one	113210-98-3	Dimethomorph	C21H22ClNO4	387.86
869		(E)-Dimethomorph	COC1=CC(/C(C2=CC=C(Cl)C=C2)=C/C(N3CCOCC3)=O)=CC=C1OC	Impurity	DCTI-C-1331	(E)-3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-morpholinoprop-2-en-1-one	113210-97-2	Dimethomorph E	C21H22ClNO4	387.86

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870	Dimetindene	Dimetindene EP Impurity-C	CCOC(C(CCN(C)C)CC1=CC=CC=C1)=O	Impurity	DCTI-C-651	ethyl 2-benzyl-4-(dimethylamino)butanoate	92726-29-9	NA	C15H23NO2	249.35
871		Dimetindene EP Impurity-D	OC(C(CCN(C)C)CC1=CC=CC=C1)=O	Impurity	DCTI-C-652	2-benzyl-4-(dimethylamino)butanoic acid	1613-23-6	NA	C13H19NO2	221.3
872		Dimetindene EP Impurity-F	CN(C)CCC1=C(CCCC)C2=CC=CC=C2C1	Impurity	DCTI-C-653	2-(3-butyl-1H-inden-2-yl)-N,N-dimethylethan-1-amine	1346746-53-9	NA	C17H25N	243.39
873		Dimetindene EP Impurity-G	CN(C)CCC1=C(C2=CC=CC=C2)C3=CC=CC=C3C1	Impurity	DCTI-C-654	N,N-dimethyl-2-(3-phenyl-1H-inden-2-yl)ethan-1-amine	803617-18-7	NA	C19H21N	263.38
874		Dimetindene EP impurity-H	C=CC1=C(C(C)C2=CC=CC=N2)C3=CC=CC=C3C1	Impurity	DCTI-C-634	2-(1-(2-vinyl-1H-inden-3-yl)ethyl)pyridine	1346597-95-2	NA	C18H17N	247.34
875		Dimetindene EP impurity-I	CC(C1=CC=CC=N1)C2=C(CCNC)CC3=CC=CC=C32	Impurity	DCTI-C-636	N-methyl-2-(3-(1-(pyridin-2-yl)ethyl)-1H-inden-2-yl)ethan-1-amine	151562-10-6	N-Demethyl dimetindene	C19H22N2	278.4

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876		DIMETINDENE EP IMPURITY- A	CCC1=CC=CC=N1	IMPURITY	DCTI-C-2771	2-ethylpyridine	100-71-0	NA	C7H9N	107.16
877		DIMETINDENE EP IMPURITY - E	CN(CCC1C(C2=C(C=CC=C2)C1)=O)C	Impurity	DCTI-C-2789	2-(2-(dimethylamino)ethyl)-2,3-dihydro-1H-inden-1-one	3409-21-0	NA	C13H17NO	203.29
878	**Dobutamine**	Dobutamine (R) Isomer Hydrochloride	OC1=CC=C(CCN[C@@H](CCC2=CC=C(O)C=C2)C)C=C1O	IMPURITY	DCTI-C-2446	(R)-4-(2-((4-(4-hydroxyphenyl)butan-2-yl)amino)ethyl)benzene-1,2-diol	61661-05-0 (Free Base); 51062-28-3 (HCl Salt)	NA	C18H23NO3 (Free base); C18H24ClNO3 (HCl salt)	301.39 (Free base); 337.84 (HCl salt)
879		Dobutamine (S) Isomer Hydrochloride	OC1=CC=C(CCN[C@H](CCC2=CC=C(O)C=C2)C)C=C1O	IMPURITY	DCTI-C-2447	(R)-4-(2-((4-(4-hydroxyphenyl)butan-2-yl)amino)ethyl)benzene-1,2-diol	61661-06-1 (Free Base); 51062-26-1 (HCl Salt)	NA	C18H23NO3 (Free base); C18H24ClNO3 (HCl salt)	301.39 (Free base); 337.84 (HCl salt)
880		Dolutegravir R,R isomer	O=C(C1=CN(C[C@](OCC[C@H]2C)([H])N2C3=O)C3=C(O)C1=O)NCC4=C(F)C=C(F)C=C4	Impurity	DCTI-C-525	(4R,12aR)-N-(2,4-difluorobenzyl)-7-hydroxy-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide	1357289-29-2	NA	C20H19F2N3O5	419.38
881		Des Hydroxy Dolutegravir	C[C@@H]1CCO[C@@H]2N1C(C3=CC(C(NCC4=C(F)C=C(F)C=C4)=O)=CN3C2)=O)=O	Impurity	DCTI-C-1791	(4R,12aS)-N-(2,4-difluorobenzyl)-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide	NA	NA	C20H19F2N3O4	403.39
882		O-Methyl Dolutegravir	C[C@@H]1CCO[C@@H]2N1C(C3=C(OC)C(C(NCC4=C(F)C=C(F)C=C4)=O)=CN3C2)=O)=O	Impurity	DCTI-C-1792	(4R,12aS)-N-(2,4-difluorobenzyl)-7-methoxy-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide	NA	NA	C21H21F2N3O5	433.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
883	Dolutegravir	(S,R)-Dolutegravir Isomer	O=C1N2[C@@H](C)CCO[C@]2([H])CN3C1=C(O)C(C(C(NCC4=CC=C(F)C=C4F)=O)=C3)=O	Impurity	DCTI-C-686	(4S,12aR)-N-(2,4-difluorobenzyl)-7-hydroxy-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide	1309560-49-3	NA	C20H19F2N3O5	419.38
884		(S,S)-Dolutegravir Isomer (Dolutegravir Impurity-16)	O=C1N2[C@@H](C)CCO[C@@]2([H])CN3C1=C(O)C(C(C(NCC4=CC=C(F)C=C4F)=O)=C3)=O	Impurity	DCTI-C-687	(4S,12aS)-N-(2,4-difluorobenzyl)-7-hydroxy-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide	1357289-37-2	4-Epi -Dolutegravir	C20H19F2N3O5	419.38
885		Dolutegravir Impurity-4	O=C1N2[C@H](C)CCO[C@@]2([H])CN3C1=C(O[Na])C(C(C(NCC4=CC=C(F)C=C4)=O)=C3)=O	Impurity	DCTI-C-688	sodium (4R,12aS)-9-((4-fluorobenzyl)carbamoyl)-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazin-7-olate	NA	Defluoro Dolutegravir; Dolutegravir 2-Desfluoro Impurity	C20H19FN3NaO5	423.38
886		Dolutegravir Impurity-5	O=C1N2[C@H](C)CCO[C@@]2([H])CN3C1=C(O[Na])C(C(C(NCC4=CC=CC=C4F)=O)=C3)=O	Impurity	DCTI-C-689	sodium (4R,12aS)-9-((2-fluorobenzyl)carbamoyl)-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazin-7-olate	NA	4-Defluoro Dolutegravir	C20H19FN3NaO5	423.38
887		Dolutegravir impurity E	FC1=CC=C(CNC(C2=CN(C=CN([C@H](C)CCO)C3=O)C3=C(O)C2=O)=O)C(F)=C1	Impurity	DCTI-C-2563	(R)-N-(2,4-difluorobenzyl)-9-hydroxy-2-(4-hydroxybutan-2-yl)-1,8-dioxo-1,8-dihydro-2H-pyrido[1,2-a]pyrazine-7-carboxamide	1973402-05-9	Dolutegravir Impurity B	C20H19F2N3O5	419.38
888		O-Ethyl Dolutegravir	FC1=CC=C(CNC(C2=CN(C[C@H](OCC[C@H]3C)N3C4=O)C4=C(OCC)C2=O)=O)C(F)=C1	Impurity	DCTI-C-2564	(4R,12aS)-N-(2,4-difluorobenzyl)-7-ethoxy-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide	1802141-49-6	Dolutegravir Impurity C	C22H23F2N3O5	447.44
889		Domperidone (RC-2)	O=C1NC2=CC=CC=C2N1CCCCl	Impurity	DCTI-C-109	1-(3-chloropropyl)-1,3-dihydro-2H-benzo[d]imidazol-2-one	62780-89-6	NA	C10H11ClN2O	210.66

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890	Domperidone	Domperidone (RC-4)	O=C1NC2=CC=CC=C2N1	Impurity	DCTI-C-110	1,3-dihydro-2H-benzo[d]imidazol-2-one	615-16-7	NSC 10383; NSC 178108	C7H6N2O	134.14
891		Domperidone (RC-5)	O=C1NC2=CC(Cl)=CC=C2N1C3CCNCC3	Impurity	DCTI-C-111	5-chloro-1-(piperidin-4-yl)-1,3-dihydro-2H-benzo[d]imidazol-2-one	53786-28-0	R 29676 Domperidone IMPURITY A; Domperidone EP Impurity A	C12H14ClN3O	251.71
892		Domperidone (RC-3)	O=C1N(CSC)C2=CC(Cl)=CC=C2N1C3CCN(CCCN4C5=CC=CC=C5NC4=O)CC3	Impurity	DCTI-C-112	5-chloro-3-((methylthio)methyl)-1-(1-(3-(2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)propyl)piperidin-4-yl)-1,3-dihydro-2H-benzo[d]imidazol-2-one	NA	NA	C24H28ClN5O2S	486.03
893		Domperidone-N-Oxide	ClC1=CC=C(N(C2CC[N+](CC2)([O-])CCCN3C4=CC=CC=C4NC3=O)C(N5)=O)C5=C1	Impurity	DCTI-C-186	4-(5-chloro-2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)-1-(3-(2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)propyl)piperidine 1-oxide	118435-03-3	Domperidone Impurity C; Domperidone EP Impurity C	C22H24ClN5O3	441.92
894		Domperidone Dimer (RC-7)	O=C1N(CCCN2C(C=CC=C3)=C3NC2=O)C4=CC(Cl)=CC=C4N1C5CCN(CCCN6C7=CC=CC=C7NC6=O)CC5	Impurity	DCTI-C-143	5-chloro-3-(3-(2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)propyl)-1-(1-(3-(2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)propyl)piperidin-4-yl)-1,3-dihydro-2H-benzo[d]imidazol-2-one	1614255-34-3	Domperidone Impurity D	C32H34ClN7O3	600.12

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895	**Dopamine**	Dopamine-6-sulfonic acid	OC(C=C(S(=O)([O-])=O)C(CC[NH3+])=C1)=C1O	Impurity	DCTI-C-3109	2-(2-ammonioethyl)-4,5-dihydroxybenzenesulfonate	83442-18-6	NA	C8H11NO5S	233.24
896	**Dorzolamide**	Dorzolamide Diastereomers	C[C@@H]1C[C@H](NCC)C(C=C(S(=O)(N)=O)S2)=C2S1(=O)=O.C[C@H]3C[C@@H](NCC)C(C=C(S(=O)(N)=O)S4)=C4S3(=O)=O	impurity	DCTI-C-2015	(4SR,6RS)-4-(ethylamino)-6-methyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide	139066-77-6	Dorzolamide intermediate Diastereomer-SR.	C10H16N2O4S3	324.43
897		Dorzolamide intermediate Diastereomer-SR	C[C@@H]1C[C@H](NC(C)=O)C(C=C(S(=O)(N)=O)S2)=C2S1(=O)=O.C[C@H]3C[C@@H](NC(C)=O)C(C=C(S(=O)(N)=O)S4)=C4S3(=O)=O	impurity	DCTI-C-2220	N-((4SR,6RS)-6-methyl-7,7-dioxido-2-sulfamoyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-4-yl)acetamide	NA	Dorzolamide N-Desethyl N-Acetyl Analog (Mixture of diasteriomers).	C10H14N2O5S3	338.41
898		Dorzolamide Intermediate Enantiomer	C[C@@H]1C[C@@H](NC(C)=O)C(C=C(S(=O)(N)=O)S2)=C2S1(=O)=O	impurity	DCTI-C-2221	N-((4R,6R)-6-methyl-7,7-dioxido-2-sulfamoyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-4-yl)acetamide	NA	Enantiomer of Dorzolamide N-Desethyl N-Acetyl Analog.	C10H14N2O5S3	338.41
899		Dorzolamide N-Desethyl N-Acetyl Analog	C[C@H]1C[C@H](NC(C)=O)C(C=C(S(=O)(N)=O)S2)=C2S1(=O)=O	impurity	DCTI-C-2222	N-((4S,6S)-6-methyl-7,7-dioxido-2-sulfamoyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-4-yl)acetamide	NA	NA	C10H14N2O5S3	338.41
900		Dorzolamide Enantiomer	C[C@@H]1C[C@@H](NCC)C(C=C(S(=O)(N)=O)S2)=C2S1(=O)=O	impurity	DCTI-C-2016	(4R,6R)-4-(ethylamino)-6-methyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide	120279-95-0	4R,6R-Dorzolamide; Ent-dorzolamide; Dorzolamide EP Impurity A: Dorzolamide Intermediate Enantiomer	C10H16N2O4S3	324.43

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901		Dorzolamide Maleic acid adduct	C[C@H]1C[C@H](N(C(C(O)=O)CC(O)=O)CC)C(C=C(S(=O)(N)=O)S2)=C2S1(=O)=O	impurity	DCTI-C-2017	N-ethyl-N-((4S,6S)-6-methyl-7,7-dioxido-2-sulfamoyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-4-yl)aspartic acid	NA	NA	C14H20N2O8S3	440.5
902		N-Nitroso Dorzolamide	O=S(C(S1)=CC([C@@H](N(N=O)CC)C[C@@H]2C)=C1S2(=O)=O)(N)=O	NDSRI	DCTI-C-3793	(4S,6S)-4-(ethyl(nitroso)amino)-6-methyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide	NA	NA	C10H15N3O5S3	353.43
903	Donepezil	Donepezil EP Impurity H	O=C1C2=CC(OC)=C(OC)C=C2CC1CC3=CCN(CC4=CC=CC=C4)CC3	Impurity	DCTI-C-3177	2-((1-benzyl-1,2,3,6-tetrahydropyridin-4-yl)methyl)-5,6-dimethoxy-2,3-dihydro-1H-inden-1-one	608511-44-0	1-Benzyl-4-[(5,6-dimethoxy-1-oxoindan-2-yl)methyl]-1,2,3,6-tetrahydropyridine; Donepezil hydrochloride Impurity H (USP)	C24H27NO3	377.48
904		Donepezil Open Ring	COC(C=C(CC(CC1CCN(CC1)CC2=CC=CC=C2)=O)C(C(O)=O)=C3)=C3OC	Impurity	DCTI-C-3650	2-(3-(1-benzylpiperidin-4-yl)-2-oxopropyl)-4,5-dimethoxybenzoic acid	197010-25-6	NA	C24H29NO5	411.49
905		Donepezil EP Impurity D	COC1=C(OC)C=C(CC(CC2=CC=NC=C2)C3=O)C3=C1	Impurity	DCTI-C-3700	5,6-dimethoxy-2-(pyridin-4-ylmethyl)-2,3-dihydro-1H-inden-1-one	4803-57-0	NA	C17H17NO3	283.33
906		Donepezil EP Impurity A	COC1=C(OC)C=C(CC(CC2CCNCC2)C3=O)C3=C1	Impurity	DCTI-C-3699	5,6-dimethoxy-2-(piperidin-4-ylmethyl)-2,3-dihydro-1H-inden-1-one	120014-30-4	Desbenzyl Donepezil	C17H23NO3	289.38
907		Donepezil Pyridine Dehydro Impurity	COC1=C(OC)C=C(C/C(C2=O)=C/C3=CC=NC=C3)C2=C1	Impurity	DCTI-C-3698	5,6-dimethoxy-2-(pyridin-4-ylmethylene)-2,3-dihydro-1H-inden-1-one	4803-74-1	NA	C17H15NO3	281.31
908		Dehydrodeoxy Donepezil	COC(C=C1C(C=C(CC2CCN(CC2)CC3=CC=CC=C3)C1)=C4)=C4OC	Impurity	DCTI-C-3763	1-benzyl-4-((5,6-dimethoxy-1H-inden-2-yl)methyl)piperidine	120013-45-8	Donepezil indene, Donepezil Dehydrodeoxy impurity	C24H29NO2	363.49
909		Donepezil N-Oxide	O=C1C2=CC(OC)=C(C=C2CC1CC3CCN(CC4=CC=CC=C4)(CC3)=O)OC	Impurity	DCTI-C-3769	1-benzyl-4-((5,6-dimethoxy-1-oxo-2,3-dihydro-1H-inden-2-yl)methyl)piperidine 1-oxide	120013-84-5	NA	C24H29NO4	395.49

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910		Donepezil EP Impurity C	O=C1[C@@H]([C@H](C2CCN(CC3=CC=CC=C3)CC2)O)CC4=C1C=C(OC)C(OC)=C4	Impurity	DCTI-C-3122	rel-(R)-2-((S)-(1-benzylpiperidin-4-yl)(hydroxy)methyl)-5,6-dimethoxy-2,3-dihydro-1H-inden-1-one	2452407-76-8	na	C24H29NO4	395.5
911	**Doxazosin**	Doxazosin Mesylate Related Compound	OC(C1OC2=CC=CC=C2OC1)=O	Impurity	DCTI-C-286	2,3-dihydrobenzo[b][1,4]dioxine-2-carboxylic acid	3663-80-7	RX 811056	C9H8O4	180.16
912	**Doxepin**	E-Doxepin	CN(C)CC/C=C1C2=C(C=CC=C2)OCC3=C/1C=CC=C3	impurity	DCTI-C-1191	(E)-3-(dibenzo[b,e]oxepin-11(6H)-ylidene)-N,N-dimethylpropan-1-amine	base free-3607-34-9, with base (4698-39-9)	NA	C19H21NO	279.38
913		Z-Doxepin	CN(C)CC/C=C1C2=C(C=CC=C2)OCC3=C\1C=CC=C3	impurity	DCTI-C-1192	(Z)-3-(dibenzo[b,e]oxepin-11(6H)-ylidene)-N,N-dimethylpropan-1-amine	Free base-3607-18-9, with base-25127-31-5	NA	C19H21NO	279.38
914		9-Nitro Doxycycline	O=C(C1=C(O)[C@@H](N(C)C)[C@@]([C@@H](O)[C@@]2([H])C(C(C3=C(O)C([N+]([O-])=O)=CC=C3[C@@H]2C)=O)=C4O)([H])[C@@]4(O)C1=O)N	Impurity	DCTI-C-2938	(4S,4aR,5S,5aR,6R,12aS)-4-(dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methyl-9-nitro-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	120793-45-5	NA	C22H23N3O10	489.44
915		6-Epidoxycycline	OC1=C2C([C@@H](C)[C@]3([H])C(C2=O)=C(O)[C@@]4(O)[C@@]([C@H](N(C)C)C(O)=C(C(N)=O)C4=O)([H])[C@H]3O)=CC=C1	Impurity	DCTI-C-1367	(4S,4aR,5S,5aR,6S,12aS)-4-(dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide.	3219-99-6	NA	C22H24N2O8	444.44

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916	**Doxycycline**	4-Epidoxycycline	CN(C)[C@@H](C(O)=C1C(N)=O)[C@]2([H])[C@@H](O)[C@](C3=C(O)[C@]2(O)C1=O)([H])[C@@H](C)C4=CC=CC(O)=C4C3=O	Impurity	DCTI-C-242	(4R,4aR,5S,5aR,6R,12aS)-4-(dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	6543-77-7	Doxcycycline Hyclate - Impurity C	C22H24N2O8	444.44
917		Doxycycline impurity D	OC1=C2C([C@@H](C)[C@]3([H])C(C2=O)=C(O)[C@@]4(O)[C@@]([C@@H](N(C)C)C(O)=C(C(N)=O)C4=O)([H])[C@H]3O)=CC=C1	impurity	DCTI-C-1368	(4R,4aR,5S,5aR,6S,12aS)-4-(dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	NA	4-Epi-6-doxycycline.	C22H24N2O8	444.44
918		N-nitroso-desmethyldoxycycline Acetate	O=C([C@](C(O)=C([C@@]1([H])[C@@H](C)C2=C3C(O)=CC=C2)C3=O)(O)[C@]([C@H]1O)([H])[C@@H]4N(N=O)C)C(C(N)=O)=C4O.OC(C)=O	NDSRI	DCTI-C-3635	(4S,4aR,5S,5aR,6R,12aS)-3,5,10,12,12a-pentahydroxy-6-methyl-4-(methyl(nitroso)amino)-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide acetate	NA	NA	C21H21N3O9 (Free base)/ C23H25N3O11 (Acetate salt)	459.41(Free base)/ 519.46 (Acetate salt)
919		Methacycline (Doxycycline EP impurity B)	OC1=C2C(C([C@]3([H])C(C2=O)=C(O)[C@@]4(O)[C@@]([C@H](N(C)C)C(O)=C(C(N)=O)C4=O)([H])[C@H]3O)=C)=CC=C1.Cl	Impurity	DCTI-C-2821	(4S,4aR,5S,5aR,12aS)-4-(dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methylene-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide Hydrochloride	3963-95-9	Methacycline Hydrochloride	C22H22N2O8 (Free Base); C22H23ClN2O8 (HCl Salt)	442.42 (Free Base); 478.88 (HCl Salt)
920	**Doxercalciferol**	Pre-doxercalciferol	C[C@H](/C=C/[C@H](C)C(C)C)C1CCC2C(/C=C\C3=C(C)[C@@H](O)C[C@H](O)C3)=CCC[C@]12C	Impurity	DCTI-C-236	(1R,3S)-5-((Z)-2-((7aR)-1-((2R,5R,E)-5,6-dimethylhept-3-en-2-yl)-7a-methyl-2,3,3a,6,7,7a-hexahydro-1H-inden-4-yl)vinyl)-4-methylcyclohex-4-ene-1,3-diol	1818286-63-3	NA	C28H44O2	412.66
921		Trans-Doxer calciferol	CC(C)[C@@H](C)/C=C/[C@@H](C)C1CC[C@@]2([H])/C(CCC[C@@]21C)=C/C=C3C([C@@H](O)C[C@H](O)C/3)=C	impurity	DCTI-C-1245	(1R,3S,E)-5-(2-((3aS,7aR,E)-1-((2R,5R,E)-5,6-dimethylhept-3-en-2-yl)-7a-methyloctahydro-4H-inden-4-ylidene)ethylidene)-4-methylenecyclohexane-1,3-diol	NA	NA	C28H44O2	412.66

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922		Beta-Doxercalciferol	O[C@@H]1C/C(C([C@@H](C1)O)=C)=C/C=C2CCC[C@@]3(C)C\2CCC3[C@H](C)/C=C/[C@H](C)C(C)C	Impurity	DCTI-C-720	(7aR,E)-4-((Z)-2-((3R,5S)-3,5-dimethyl-2-methylenecyclohexylidene)ethylidene)-1-((2R,5R,E)-5,6-dimethylhept-3-en-2-yl)-7a-methyloctahydro-1H-indene	NA	Doxercalciferol Impurity-1	C28H44O2	412.66
923	DROPERIDOL	DROPERIDOL IMPURITY B	O=C(C1=C(C=CC=C1)F)CCCN2CC=C(CC2)N3C(NC4=C3C=CC=C4)=O	Impurity	DCTI-C-3626	1-(1-(4-(2-fluorophenyl)-4-oxobutyl)-1,2,3,6-tetrahydropyridin-4-yl)-1,3-dihydro-2H-benzo[d]imidazol-2-one	1026015-45-1	NA	C22H22FN3O2	379.43
924		DROPERIDOL IMPURITY E	O=C1NC2=C(N1C3=CCN(CC3)C4=CC=C(C(CCCN5CC=C(CC5)N6C(NC7=C6C=CC=C7)=O)=O)C=C4)C=CC=C2	Impurity	DCTI-C-3625	1-(1-(4-(4-(4-(2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)-3,6-dihydropyridin-1(2H)-yl)butanoyl)phenyl)-1,2,3,6-tetrahydropyridin-4-yl)-1,3-dihydro-2H-benzo[d]imidazol-2-one	1346604-17-8	Droperidol EP Impurity E	C34H34N6O3	574.67
925		DROPERIDOL IMPURITY C	O=C1NC2=C(N1C3=CC=[N+](CCCC(C4=CC=C(C=C4)F)=O)C=C3)C=CC=C2.FC(F)(C([O-])=O)F	Impurity	DCTI-C-3684	1-(4-(4-fluorophenyl)-4-oxobutyl)-4-(2-oxo-2,3-dihydro-1H-benzo[d]imidazol-1-yl)pyridin-1-ium 2,2,2-trifluoroacetate	705917-40-4 (Free base)	NA	Free base: C22H19FN3O2 TFA salt: C24H19F4N3O4	Free base: 376.41 TFA salt: 489.43
926		4-Chloro-2'-fluorobutyrophenone	O=C(CCCCl)C1=C(F)C=CC=C1	Impurity	DCTI-C-3720	4-chloro-1-(2-fluorophenyl)butan-1-one	2823-19-0	4-Chloro-1-(2-fluorophenyl)-1-oxobutane	C10H10ClFO	200.64
927	Droxidopa	Droxidopa Imp-M	OC1=C(O)C=C(C2CC(C=C(O)C(O)=C3)=C3C(N2)C4)C4=C1	impurity	DCTI-C-1146	5,6,11,12-tetrahydro-5,11-epiminodibenzo[a,e][8]annulene-2,3,8,9-tetraol	90044-46-5	(±)-Tetrahydroxy pavinane	C16H15NO4	285.3
928		Droxidopa BBC Impurity (HCl salt)	O=C(C1=CC=CC=C1)C2=CC(Cl)=CC=C2NC([C@@H]3N(CC4=CC=CC=C4)CCC3)=O.Cl	IMPURITY	DCTI-C-3520	(R)-N-(2-benzoyl-4-chlorophenyl)-1-benzyl-pyrrolidine-2-carboxamide Hydrochloride	1021462-91-8	NA	C25H23ClN2O2 (Free base) C25H24Cl2N2O2 (HCl Salt)	418.92 (free base) 455.38(Hl Salt)
929		6-Chloro-9-(9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6-yl)-9H-purine	ClC1=C2N=CN(C3=C4N=CN(C5CCCCO5)C4=NC=N3)C2=NC=N1	Impurity	DCTI-C-2605	6-Chloro-9-(9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6-yl)-9H-purine	NA	Duvelisib impurity 1	C15H13ClN8O	356.77

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
930	Duvelisib	6-Chloro-9-(9H-purine-6-yl)-9H-purine	ClC1=C2N=CN(C3=C4N=CNC4=NC=N3)C2=NC=N1	Impurity	DCTI-C-2606	6-Chloro-9-(9H-purine-6-yl)-9H-purine	NA	NA	C10H5ClN8	272.66
931		(S)-3-(1-aminoethyl)-8-chloro-2-phenylisoquinolin-1(2H)-one	O=C1N(C2=CC=CC=C2)C([C@@H](N)C)=CC3=C1C(Cl)=CC=C3	Impurity	DCTI-C-2492	(S)-3-(1-aminoethyl)-8-chloro-2-phenylisoquinolin-1(2H)-one	1350643-72-9	3-[(1s)-1-Aminoethyl]-8-Chloro-2-Phenyl-1,2-Dihydroisoquinolin-1-One	C17H15ClN2O	298.77
932		6-Chloro-9-(9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6-yl)-9H-purine	ClC1=C2N=CN(C3=C4N=CN(C5CCCCO5)C4=NC=N3)C2=NC=N1	Impurity	DCTI-C-2605	6-Chloro-9-(9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6-yl)-9H-purine	NA	Duvelisib impurity 1	C15H13ClN8O	356.77
933		6-Chloro-9-(9H-purine-6-yl)-9H-purine	ClC1=C2N=CN(C3=C4N=CNC4=NC=N3)C2=NC=N1	Impurity	DCTI-C-2606	6-Chloro-9-(9H-purine-6-yl)-9H-purine	NA	NA	C10H5ClN8	272.66
934	Duloxetine	Duloxetine Alcohol	CNCC[C@@H](O)C1=CC=CS1	IMPURITY	DCTI-C-2776	(R)-3-(methylamino)-1-(thiophen-2-yl) propan-1-ol	116539-57-2	(R)-α-[2-(Methylamino) ethyl]-2-thiophenemethanol; (1R)-3-(Methylamino)-1-(2-thienyl)-1-propanol;(R)-(+)-3-(N-Methylamino)-1-(2-thienyl)-1-propanol	C8H13NOS	171.26
935		N-Nitroso Duloxetine	CN(N=O)CC[C@H](OC1=C2C=CC=CC2=CC=C1)C3=CC=CS3	NDSRI	DCTI-C-3090	(S)-N-methyl-N-(3-(naphthalen-1-yloxy)-3-(thiophen-2-yl)propyl)nitrous amide	NA	N-Nitroso Duloxetine (Mixture of Isomers)	C18H18N2O2S	326.41
936	Dydrogesterone	Beta- Dihydroxy Dydrogesterone or 20β-Dihydrodydrogesterone	O=C1C=C2C=C[C@]3([H])[C@@]([C@@]2(CC1)C)([H])CC[C@]4(C)[C@H](CC[C@@]34[H])[C@H](O)C	IMPURITY	DCTI-C-2772	(8S,9R,10S,13S,14S,17S)-17-((R)-1-hydroxyethyl)-10,13-dimethyl-1,2,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	4243-73-6	NA	C21H30O2	314.47

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
937		20-Hydroxydydrogesterone	O=C1C=C2C=C[C@]3([H])[C@@]([C@@]2(CC1)C)([H])CC[C@]4(C)[C@H](CC[C@@]34[H])[C@@H](O)C	Impurity	DCTI-C-2413	(8S,9R,10S,13S,14S,17S)-17-((S)-1-hydroxyethyl)-10,13-dimethyl-1,2,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	4243-74-7	20α-Hydroxydydrogesterone	C21H30O2	314.47
938	Edaravone	Edaravone Degradation Product-9	OC1=C(C2=C(O)N(C3=CC=CC=C3)N=C2CO)C(C)=NN1C4=CC=CC=C4	IMPURITY	DCTI-C-2769	3-(hydroxymethyl)-3'-methyl-1,1'-diphenyl-1H,1'H-[4,4'-bipyrazole]-5,5'-diol	NA	3-Hydroxymethyl Edaravone Dimer	C20H18N4O3	362.39
939		Edaravone Degradation Product-1	OC1=C(C2=CC(C)=NN2C3=CC=CC=C3)C(C)=NN1C4=CC=CC=C4	Metabolite	DCTI-C-2731	3',5-dimethyl-1',2-diphenyl-1'H,2H-[3,4'-bipyrazol]-5'-ol	168848-20-2	Edaravone Degradation product -1	C20H18N4O	330.39
940		Edaravone impurity - 6	O=C(N(N=C/1C)C2=CC=CC=C2)C1=C(CC(OCC)=O)/C	metabolite	DCTI-C-2733	ethyl (E)-3-(3-methyl-5-oxo-1-phenyl-1,5-dihydro-4H-pyrazol-4-ylidene)butanoate	87343-64-4	Impurity -6	C16H18N2O3	286.33
941		Edaravone Degradation Product-2	O=C1C(C2=C(O)N(C3=CC=CC=C3)N=C2C)(O)C(C)=NN1C4=CC=CC=C4	Metabolite	DCTI-C-2732	4',5-dihydroxy-3,5'-dimethyl-1,2'-diphenyl-2',4'-dihydro-1H,3'H-[4,4'-bipyrazol]-3'-one	92558-29-7	Edaravone Impurity 32 ;Degradation Product-2	C20H18N4O3	362.39
942		5-hydroxy-1-phenyl-1H-pyrazole-3-carboxylic acid	OC1=CC(C(O)=O)=NN1C2=CC=CC=C2	Impurity	DCTI-C-2823	5-hydroxy-1-phenyl-1H-pyrazole-3-carboxylic acid	114138-50-0	Edaravone DP-1	C10H8N2O3	204.19
943		3-(hydroxymethyl)-1-phenyl-1H-pyrazol-5-ol	OC1=CC(CO)=NN1C2=CC=CC=C2	Impurity	DCTI-C-2840	3-(hydroxymethyl)-1-phenyl-1H-pyrazol-5-ol	114138-50-0	Edaravone DP-2	C10H10N2O2	190.2

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944	**Edaravone**	Edaravone Dimer	OC1=C(C2=C(O)N(C3=CC=CC=C3)N=C2C)C(C)=NN1C4=CC=CC=C4	Impurity	DCTI-C-2792	3,3'-dimethyl-1,1'-diphenyl-1H,1'H-[4,4'-bipyrazole]-5,5'-diol	177415-76-8	NA	C20H18N4O2	346.39
945		Edoxaban Tosylate-RRR-isomer Impurity	CN1CCC2=C(SC(C(N[C@@H]3C[C@H](C(N(C)C)=O)CC[C@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-603	N1-(5-chloropyridin-2-yl)-N2-((1R,2R,4R)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	1255529-24-8	NA	C24H30ClN7O4S	548.06
946		Edoxaban pyridine N-oxide	O=C(N[C@@H]1C[C@@H](C(N(C)C)=O)CC[C@@H]1NC(C(NC2=N(C=C(Cl)C=C2)=O)=O)C3=NC4=C(S3)CN(C)CC4	Impurity	DCTI-C-2258	5-chloro-2-(2-(((1S,2R,4S)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)amino)-2-oxoacetamido)pyridine 1-oxide	NA	Edoxaban Impurity 8	$C_{24}H_{30}ClN_7O_5S$	564.06
947		Edoxaban N-oxide (Mixture of diastereomers)	O=C(N(C)C)[C@H]1CC[C@H](NC(C(NC2=CC=C(Cl)C=N2)=O)=O)[C@H](NC(C3=NC(CCN(C4)(C)=O)=C4S3)=O)C1	impurity	DCTI-C-1894	2-(((1R,2S,5S)-2-(2-((5-chloropyridin-2-yl)amino)-2-oxoacetamido)-5-(dimethylcarbamoyl)cyclohexyl)carbamoyl)-5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine 5-oxide	NA	(5S)-5-Oxide Edoxaban; 5-Oxide Edoxaban	C24H30ClN7O5S	564.06
948		Edoxaban metabolite-1	O=C(NC)[C@H]1CC[C@H](NC(C(NC2=CC=C(Cl)C=N2)=O)=O)[C@H](NC(C3=NC(CCN(C)C4)=C4S3)=O)C1	Metabolite	DCTI-C-1536	N1-(5-chloropyridin-2-yl)-N2-((1S,2R,4S)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)-4-(methylcarbamoyl)cyclohexyl)oxalamide	NA	Des methyl Edoxaban	C23H28ClN7O4S	534.03

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949		Edoxaban Cyclohexyl Methyl Ester Impurity	O=C(OC)[C@H]1CC[C@H](NC(C(NC2=CC=C(Cl)C=N2)=O)=O)[C@H](NC(C3=NC(CCN(C)C4)=C4S3)=O)C1	Impurity	DCTI-C-1628	Methyl (1S,3R,4S)-4-(2-((5-chloropyridin-2-yl)amino)-2-oxoacetamido)-3-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexane-1-carboxylate	NA	Cyclohexyl methyl ester impurity	C23H27ClN6O5S	535.02
950		Edoxaban Tosylate-RRS-isomer Impurity	CN1CCC2=C(SC(C(N[C@@H]3C[C@@H](C(N(C)C)=O)CC[C@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-604	N1-(5-chloropyridin-2-yl)-N2-((1R,2R,4S)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	480449-28-3 (HCl Salt)	1-Epi-Edoxaban; (1R)-Edoxaban	C24H30ClN7O4S	548.06
951		Edoxaban Tosylate-RSR-isomer Impurity	CN1CCC2=C(SC(C(N[C@H]3C[C@H](C(N(C)C)=O)CC[C@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-605	N1-(5-chloropyridin-2-yl)-N2-((1R,2S,4R)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	1255529-23-7	Ent-Edoxaban; Edoxaban Impurity 1	C24H30ClN7O4S	548.06
952		Edoxaban Tosylate-SRR-isomer Impurity	CN1CCC2=C(SC(C(N[C@@H]3C[C@H](C(N(C)C)=O)CC[C@@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-606	N1-(5-chloropyridin-2-yl)-N2-((1S,2R,4R)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	1255529-26-0	4-epi-Edoxaban	C24H30ClN7O4S	548.06

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
953		Edoxaban Tosylate-SSR-isomer Impurity	CN1CCC2=C(SC(C(N[C@H]3C[C@H](C(N(C)C)=O)CC[C@@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-607	N1-(5-chloropyridin-2-yl)-N2-((1S,2S,4R)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	1255529-28-2	NA	C24H30ClN7O4S	548.06
954		Edoxaban Tosylate-SSS-isomer Impurity	CN1CCC2=C(SC(C(N[C@H]3C[C@@H](C(N(C)C)=O)CC[C@@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-608	N1-(5-chloropyridin-2-yl)-N2-((1S,2S,4S)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	1255529-27-1	NA	C24H30ClN7O4S	548.06
955		Edoxaban Tosylate-RSS-isomer Impurity	CN1CCC2=C(SC(C(N[C@H]3C[C@@H](C(N(C)C)=O)CC[C@H]3NC(C(NC4=NC=C(Cl)C=C4)=O)=O)=O)=N2)C1	Impurity	DCTI-C-639	N1-(5-chloropyridin-2-yl)-N2-((1R,2S,4S)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	1255529-25-9	NA	C24H30ClN7O4S	548.06
956		EDB KSM1-RRR Isomer Impurity	N[C@H]1[C@H](NC(OC(C)(C)C)=O)C[C@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1328	tert-butyl ((1R,2R,5R)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	2081883-53-4	NA	C14H27N3O3	285.39
957		EDB KSM1-RRS Isomer Impurity	N[C@H]1[C@H](NC(OC(C)(C)C)=O)C[C@@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1329	tert-butyl ((1R,2R,5S)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	1353893-25-0	NA	C14H27N3O3	285.39

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958	**Edoxaban**	EDB KSM1-RSR Isomer Impurity	N[C@@H]1[C@H](NC(OC(C)(C)C)=O)C[C@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1322	tert-butyl ((1R,2S,5R)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	2081883-57-8	NA	C14H27N3O3	285.39
959		EDB KSM1-RSS Isomer Impurity	N[C@@H]1[C@H](NC(OC(C)(C)C)=O)C[C@@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1323	tert-butyl ((1R,2S,5S)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	365998-36-3	NA	C14H27N3O3	285.39
960		EDB KSM1-SRR Isomer Impurity	N[C@H]1[C@@H](NC(OC(C)(C)C)=O)C[C@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1325	tert-butyl ((1S,2R,5R)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	2089454-69-1	NA	C14H27N3O3	285.39
961		EDB KSM1-SRS Isomer Impurity	N[C@H]1[C@@H](NC(OC(C)(C)C)=O)C[C@@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1324	tert-butyl ((1S,2R,5S)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	2081883-55-6	NA	C14H27N3O3	285.39
962		EDB KSM1-SSR Isomer Impurity	N[C@@H]1[C@@H](NC(OC(C)(C)C)=O)C[C@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1327	tert-butyl ((1S,2S,5R)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	2081883-50-1	NA	C14H27N3O3	285.39

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963		EDB KSM1-SSS Isomer Impurity	N[C@@H]1[C@@H](NC(OC(C)(C)C)=O)C[C@@H](C(N(C)C)=O)CC1	Impurity	DCTI-C-1326	tert-butyl ((1S,2S,5S)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)carbamate	2081883-52-3	NA	C14H27N3O3	285.39
964		N-Des Methyl Edoxaban hydrochloride	O=C(N[C@@H]1C[C@@H](C(N(C)C)=O)CC[C@@H]1NC(C(NC2=NC=C(Cl)C=C2)=O)=O)C3=NC4=C(S3)CNCC4.Cl	metabolite	DCTI-C-875	N1-(5-chloropyridin-2-yl)-N2-((1S,2R,4S)-4-(dimethylcarbamoyl)-2-(4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide hydrochloride	778571-11-2 (Free base) 480449-52-3 (HCl salt)	N-Des Me Edoxaban hydrochloride	C23H28ClN7O4S (Free Base) C23H28ClN7O4S . ClH (Salt)	534.03 (Free Base) 570.49 (HCl Salt)
965		N-Des Methyl Edoxaban coupled	O=C(N[C@@H]1C[C@@H](C(N(C)C)=O)CC[C@@H]1NC(C(NC2=NC=C(Cl)C=C2)=O)=O)C3=NC4=C(S3)CN(C(C5=NC(CCN(C)C6)=C6S5)=O)CC4	Impurity	DCTI-C-876	N1-(5-chloropyridin-2-yl)-N2-((1S,2R,4S)-4-(dimethylcarbamoyl)-2-(5-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carbonyl)-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	NA	N-Des Me Edoxaban coupled	C31H36ClN9O5S2	714.26
966		Edoxaban M1	O=C(N[C@@H]1[C@H](NC(C(S2)=NC3=C2CN(C)CC3)=O)C[C@@H](C(N(C)C)=O)CC1)C(O)=O	metabolite	DCTI-C-2591	2-(((1S,2R,4S)-4-(dimethylcarbamoyl)-2-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)amino)-2-oxoacetic acid	767625-11-6	4S-Des-3-chloropyridine-edoxaban	C19H27N5O5S (free base)	437.52 (free base)
967		EDOXABAN 12 DIMER	ClC1=CN=C(NC(C(NC(C=C2)=NC=C2Cl)=O)=O)C=C1>>ClC3=CN=C(NC(/C(O)=N/C(C=C4)=NC=C4Cl)=O)C=C3	IMPURITY	DCTI-C-2670	N1,N2-bis(5-chloropyridin-2-yl)oxalamide and (Z)-N-(5-chloropyridin-2-yl)-2-((5-chloropyridin-2-yl)amino)-2-oxoacetimidic acid	NA	EDX-12 Dimer, Edoxaban Impurity 79,EDOXABAN 12 DIMER (mixture of isomers)	C12H8Cl2N4O2	311.12

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968		Edoxaban ester impurity	O=C(N[C@@H]1[C@H](NC(C(S2)=NC3=C2CN(C)CC3)=O)C[C@@H](C(OCC)=O)CC1)C(NC4=NC=C(Cl)C=C4)=O	IMPURITY	DCTI-C-2696	ethyl (1S,3R,4S)-4-(2-((5-chloropyridin-2-yl)amino)-2-oxoacetamido)-3-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexane-1-carboxylate	1093351-29-1	Edoxaban Ethyl ester Impurity	C24H29ClN6O5S	549.04
969		N-((1R,2S,5S)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)-5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamide 2,2,2-trifluoroacetate	O=C([C@H]1CC[C@H](N)[C@H](NC(C2=NC(CCN(C)C3)=C3S2)=O)C1)N(C)C.OC(C(F)(F)F)=O	Metabolite	DCTI-C-2941	N-((1R,2S,5S)-2-amino-5-(dimethylcarbamoyl)cyclohexyl)-5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamide 2,2,2-trifluoroacetate	NA	(1R,2S,5S)-2-Amino Edoxaban	C17H27N5O2S (free base);C19H28F3N5O4S (TFA salt)	365.50 (free base);479.52 (TFA salt)
970		(1R, 2S, 5S)-tert-Butyl edoxaban	O=C(N[C@@H]1[C@H](NC(OC(C)(C)C)=O)C[C@@H](C(N(C)C)=O)CC1)C(NC2=NC=C(Cl)C=C2)=O	Impurity	DCTI-C-3114	tert-Butyl(1R,2S,5S)-2-({2-[(5-chloropyridin-2-yl)amino]-2-oxoacetyl}amino)-5-[(dimethylamino)carbonyl]cyclohexyl-carbamate	480452-36-6	Edoxaban-Boc-pyridylamide	C21H30ClN5O5	467.95
971		Edoxaban-Aminopyridilamide	O=C(N[C@@H]1[C@H](N)C[C@@H](C(N(C)C)=O)CC1)C(NC2=NC=C(Cl)C=C2)=O.Cl	Impurity	DCTI-C-3115	N1-((1S,2R,4S)-2-amino-4-(dimethylcarbamoyl)cyclohexyl)-N2-(5-chloropyridin-2-yl)oxalamide hydrochloride	482375-18-8	NA	C16H23Cl2N5O3 (Salt)C16H22ClN5O3 (Free base)	404.29 (Salt)367.83 (free base)
972		Edoxaban-Dipyridyl	O=C(N[C@H]1[C@@H](NC(C(NC2=NC=C(Cl)C=C2)=O)=O)CC[C@H](C(N(C)C)=O)C1)C(NC3=NC=C(Cl)C=C3)=O	Impurity	DCTI-C-3116	N1,N1'-((1S,2R,4S)-4-(dimethylcarbamoyl)cyclohexane-1,2-diyl)bis(N2-(5-chloropyridin-2-yl)oxalamide)	2568974-02-5	NA	C23H25Cl2N7O5	550.4
973		Edoxaban nitroso impurity	O=C(N(C)C)[C@H]1CC[C@H](NC(C(NC2=CC=C(Cl)C=N2)=O)=O)[C@H](NC(C3=NC(CCN(N=O)C4)=C4S3)=O)C1	NDSRI	DCTI-C-3128	N1-(5-chloropyridin-2-yl)-N2-((1S,2R,4S)-4-(dimethylcarbamoyl)-2-(5-nitroso-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexyl)oxalamide	NA	N-Nitroso Edoxaban impurity; Edoxaban nitroso impurity (Mixture of Diastereomers)	C23H27ClN8O5S	563.03
974		5-nitroso-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxylic acid	OC(C1=NC2=C(S1)CN(N=O)CC2)=O	NDSRI	DCTI-C-3238	5-nitroso-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxylic acid	NA	N-Nitroso Edoxaban Impurity	C7H7N3O3S	213.21

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975		Edoxaban 4-carboxylic acid	OC([C@H]1CC[C@H](NC(C(NC2=CC=C(Cl)C=N2)=O)=O)[C@H](NC(C3=NC(CCN(C)C4)=C4S3)=O)C1)=O	Metabolite	DCTI-C-2495	(1S,3R,4S)-4-(2-((5-chloropyridin-2-yl)amino)-2-oxoacetamido)-3-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamido)cyclohexane-1-carboxylic acid	834919-19-6	etabolite; Edoxaban M4; Edo	C22H25ClN6O5S	520.99
976		2-bromo-5-nitroso-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine	BrC1=NC2=C(S1)CN(N=O)CC2	NDSRI	DCTI-C-3400	2-bromo-5-nitroso-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine	NA	N-Nitroso Edoxaban Impurity	C6H6BrN3OS	248.1
977		5-chloropyridin-2-amine	NC1=NC=C(Cl)C=C1	Impurity	DCTI-C-3657	5-chloropyridin-2-amine	1072-98-6	2-Amino-5-chloropyridine.	C5H5ClN2	128.56
978	**Efavirenz**	Efavirenz Amino alcohol ethyl carbamate	ClC1=CC([C@@](C(F)(F)F)(O)C#CC2CC2)=C(C=C1)NC(OCC)=O	IMPURITY	DCTI-C-3499	ethyl (S)-(4-chloro-2-(4-cyclopropyl-1,1,1-trifluoro-2-hydroxybut-3-yn-2-yl)phenyl)carbamate	211563-41-6	NA	C16H15ClF3NO3	361.75
979		Efavirenz Amino Alcohol Methyl Carbamate	ClC1=CC([C@@](C(F)(F)F)(O)C#CC2CC2)=C(C=C1)NC(OC)=O	IMPURITY	DCTI-C-3500	methyl (S)-(4-chloro-2-(4-cyclopropyl-1,1,1-trifluoro-2-hydroxybut-3-yn-2-yl)phenyl)carbamate	211563-40-5	NA	C15H13ClF3NO3	347.72
980		Efavirenz Aminoalcohol Bis(ethoxycarbonyl)	O=C(OCC)NC1=CC=C(Cl)C=C1[C@](C#CC2CC2)(OC(OCC)=O)C(F)(F)F	IMPURITY	DCTI-C-3519	ethyl (S)-(4-chloro-2-(4-cyclopropyl-2-((ethoxycarbonyl)oxy)-1,1,1-trifluorobut-3-yn-2-yl)phenyl)carbamate	2733280-20-9	NA	C19H19ClF3NO5	433.81
981		N-Benzyl Efavirenz	FC(F)(F)[C@](O1)(C#CC2CC2)C3=CC(Cl)=CC=C3N(CC4=CC=C(OC)C=C4)C1=O	Impurity	DCTI-C-3554	(S)-6-chloro-4-(cyclopropylethynyl)-1-(4-methoxybenzyl)-4-(trifluoromethyl)-1,4-dihydro-2H-benzo[d][1,3]oxazin-2-one	174819-21-7	NA	C22H17ClF3NO3	435.83
982		Efavirenz Benzoyl Amino Impurity	ClC1=CC([C@@](C(F)(F)F)(O)C#CC2CC2)=C(C=C1)NC(C3=CC=C(OC)C=C3)=O	Impurity	DCTI-C-3551	(S)-N-(4-chloro-2-(4-cyclopropyl-1,1,1-trifluoro-2-hydroxybut-3-yn-2-yl)phenyl)-4-methoxybenzamide	353270-77-6	NA	C21H17ClF3NO3	423.82
983		Efavirenz Amino Alcohol	NC1=C([C@@](C(F)(F)F)(O)C#CC2CC2)C=C(Cl)C=C1	Impurity	DCTI-C-3552	(S)-2-(2-amino-5-chlorophenyl)-4-cyclopropyl-1,1,1-trifluorobut-3-yn-2-ol	209414-27-7	Efavirenz USP Related Compound A	C13H11ClF3NO	289.68
984		Efavirenz Quinoline analog	ClC1=CC=C2C(C(C(F)(F)F)=CC(C3CC3)=N2)=C1	Impurity	DCTI-C-3586	6-chloro-2-cyclopropyl-4-(trifluoromethyl)quinoline	391860-73-4	2-Cyclopropyl-6-chloro-4-(trifluoromethyl) quinoline	C13H9ClF3N	271.67

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985		Efinaconazole Impurity	FC1=CC(O[C@]2(CN3C=NC=N3)[C@H](N4CCC(CC4)=C)C)=C2C=C1	Impurity	DCTI-C-274	1-((R)-1-((R)-8-((1H-1,2,4-triazol-1-yl)methyl)-4-fluoro-7-oxabicyclo[4.2.0]octa-1(6),2,4-trien-8-yl)ethyl)-4-methylenepiperidine	NA	Efinaconazole Impurity 17	C18H21FN4O	328.39
986		Diastereomer (2S,3S)-EFC-III	C[C@H]1[C@@](CN2N=CN=C2)(C3=CC=C(F)C=C3F)O1	impurity	DCTI-C-1940	1-(((2S,3S)-2-(2,4-difluorophenyl)-3-methyloxiran-2-yl)methyl)-1H-1,2,4-triazole	135270-10-9	Efinaconazole (2S,3S) Epoxide; Efinaconazole Epoxide Diastereomer	C12H11F2N3O	251.24
987		Efinaconazole (2R,3S) Epoxide	C[C@H]1[C@](CN2N=CN=C2)(C3=CC=C(F)C=C3F)O1	impurity	DCTI-C-1938	1-(((2R,3S)-2-(2,4-difluorophenyl)-3-methyloxiran-2-yl)methyl)-1H-1,2,4-triazole	127000-90-2	1H-1,2,4-Triazole, 1-[[2-(2,4-difluorophenyl)-3-methyloxiranyl]methyl]-, (2R-cis)-; 1-[[(2R,3S)-2-(2,4-Difluorophenyl)-3-methyloxiranyl]methyl]-1H-1,2,4-triazole; (2R,3S)-2-(2,4-Difluorophenyl)-3-methyl-2-(1H-1,2,4-triazol-1-yl)methyloxirane; (2R,3S)-2-(2,4-Difluorophenyl)-3-methyl-2-[(1H-1,2,4-triazol-1-yl)methyl]oxirane;	C12H11F2N3O	251.24
988		Enantiomer (2S,3R)-EFC-III	C[C@@H]1[C@@](CN2N=CN=C2)(C3=CC=C(F)C=C3F)O1	impurity	DCTI-C-1937	1-(((2S,3R)-2-(2,4-difluorophenyl)-3-methyloxiran-2-yl)methyl)-1H-1,2,4-triazole	135270-07-4	Efinaconazole (2S,3R) Epoxide; Efinaconazole Epoxide Enantiomer	C12H11F2N3O	251.24
989		Efinaconazole (2R,3R) Diol	C[C@@H](O)[C@@](O)(C1=CC=C(F)C=C1F)CN2N=CN=C2	impurity	DCTI-C-1936	(2R,3R)-2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)butane-2,3-diol	133775-25-4	(2R,3R)-2-(2,4-Difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)-2,3-butanediol	C12H13F2N3O2	269.25

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990	Efinaconazole	Diastereomer(2S,3R)-EFC-II	C[C@@H](O)[C@](O)(C1=CC=C(F)C=C1F)CN2N=CN=C2.C[C@H](O)[C@@](O)(C3=CC=C(F)C=C3F)CN4N=CN=C4	impurity	DCTI-C-1934	(2S,3R)/(2R,3S)-2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)butane-2,3-diol	NA	NA	C12H13F2N3O2	269.25
991		(2S,3S) Efinaconazole Enantiomer	C[C@H](N1CCC(CC1)=C)[C@](O)(C2=CC=C(F)C=C2F)CN3N=CN=C3	impurity	DCTI-C-1932	(2S,3S)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	164650-45-7	(1-Piperidineethanol, α-(2,4-difluorophenyl)-β-methyl-4-methylene-α-(1H-1,2,4-triazol-1-ylmethyl)-,[S-(R*,R*)]-;(αS,βS)-α-(2,4-Difluorophenyl)-β-methyl-4-methylene-α-(1H-1,2,4-triazol-1-ylmethyl)-1-piperidineethanol.	C18H22F2N4O	348.4
992		Diastereomer (2S,3R)	C[C@@H](N1CCC(CC1)=C)[C@](O)(C2=CC=C(F)C=C2F)CN3N=CN=C3	impurity	DCTI-C-1931	(2S,3R)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	2055038-61-2	(αS,βR)-α-(2,4-Difluorophenyl)-β-methyl-4-methylene-α-(1H-1,2,4-triazol-1-ylmethyl)-1-piperidineethanol; Efinaconazole Diastereomer (2S,3R); 2S,3R-Efinaconazole	C18H22F2N4O	348.4
993		Efinaconazole (2R, 3R) Regiamer	C[C@@H](N1CCC(CC1)=C)[C@@](O)(C2=CC=C(F)C=C2F)CN3C=NN=C3	impurity	DCTI-C-2018	(2R,3R)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(4H-1,2,4-triazol-4-yl)butan-2-ol	2122222-10-8	Efinaconazole Regio isomer;1-Piperidineethanol, α-(2,4-difluorophenyl)-β-methyl-4-methylene-α-(4H-1,2,4-triazol-4-ylmethyl)-, (αR,βR);Efinaconazole Impurity 5.	C18H22F2N4O	348.4
994		Efinaconazole Impurity 13	C[C@@H](N1CCC(CC1)=C)[C@@](O)(C2=CC=C(N3CCC(CC3)=C)C=C2F)CN4N=CN=C4	impurity	DCTI-C-2019	(2R,3R)-2-(2-fluoro-4-(4-methylenepiperidin-1-yl)phenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	2055912-03-1	(αR,βR)-α-[2-Fluoro-4-(4-methylene-1-piperidinyl)phenyl]-β-methyl-4-methylene-α-(1H-1,2,4-triazol-1-ylmethyl)-1-piperidineethanol;(2R,3R)-3-(4-Methylenepiperidin-1-yl)-2-[4-(4-methylenepiperidin-1-yl)2-fluorophenyl]-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	C24H32FN5O	425.55

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995		Diastereomer (2R,3S)	C[C@H](N1CCC(CC1)=C)[C@@](O)(C2=CC=C(F)C=C2F)CN3N=CN=C3	impurity	DCTI-C-1930	(2R,3S)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	2055038-60-1	(αR,βS)-α-(2,4-Difluorophenyl)-β-methyl-4-methylene-α-(1H-1,2,4-triazol-1-ylmethyl)-1-piperidineethanol; Efinaconazole Diastereomer (2R,3S); 2R,3S-Efinaconazole	C18H22F2N4O	348.4
996		Efinaconazole (2S,3S) Diol Enantiomer	C[C@H](O)[C@](O)(C1=CC=C(F)C=C1F)CN2N=CN=C2	impurity	DCTI-C-1935	(2S,3S)-2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)butane-2,3-diol	135270-05-2	NA	C12H13F2N3O2	269.25
997		Diastereomer(2R,3S)-EFC-II	C[C@H](O)[C@@](O)(C1=CC=C(F)C=C1F)CN2N=CN=C2.C[C@@H](O)[C@](O)(C3=CC=C(F)C=C3F)CN4N=CN=C4	impurity	DCTI-C-1933	(2R,3S)/(2S,3R)-2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)butane-2,3-diol	NA	2,3-Butanediol, 2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)-, [S-(R*,S*)]-, Efinaconazole Impurity 4, Efinaconazole (2R,3S)Diol	C12H13F2N3O2	269.25
998		Diastereomer (2R,3R)-EFC-III	C[C@@H]1[C@](CN2N=CN=C2)(C3=CC=C(F)C=C3F)O1	impurity	DCTI-C-1939	1-(((2R,3R)-2-(2,4-difluorophenyl)-3-methyloxiran-2-yl)methyl)-1H-1,2,4-triazole	135270-13-2	NA	C12H11F2N3O	251.24
999		Efinaconazole Impurity	FC1=CC(N2CCC(CC2)=C)=C(C(C=C)(O)CN3C=NC=N3)C=C1	Impurity	DCTI-C-496	2-(4-fluoro-2-(4-methylenepiperidin-1-yl)phenyl)-1-(1H-1,2,4-triazol-1-yl)but-3-en-2-ol	NA	NA	C18H21FN4O	328.39

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1000		Efinaconazole N-Oxide	C[C@@H]([N+]1([O-])CCC(CC1)=C)[C@@](O)(C2=CC=C(F)C=C2F)CN3N=CN=C3	Impurity	DCTI-C-497	1-((2R,3R)-3-(2,4-difluorophenyl)-3-hydroxy-4-(1H-1,2,4-triazol-1-yl)butan-2-yl)-4-methylenepiperidine 1-oxide	2055038-63-4	NA	C18H22F2N4O2	364.4
1001		4-bromo-3-fluorophenyl triazole	BrC1=CC=C(N2C=NC=N2)C=C1F	Impurity	DCTI-C-513	1-(4-bromo-3-fluorophenyl)-1H-1,2,4-triazole	1783748-37-7	NA	C8H5BrFN3	242.05
1002		1-(2-bromo-5-fluorophenyl)-1H-1,2,4-triazole	FC1=CC(N2C=NC=N2)=C(Br)C=C1	Impurity	DCTI-C-515	1-(2-bromo-5-fluorophenyl)-1H-1,2,4-triazole	909274-76-6	NA	C8H5BrFN3	242.05
1003		Efinaconazole Keto Impurity	FC1=CC=C(C(CN2N=CN=C2)=O)C(F)=C1	Impurity	DCTI-C-2692	1-(2,4-difluorophenyl)-2-(1H-1,2,4-triazol-1-yl)ethan-1-one	86404-63-9	Voriconazole EP Impurity A	C10H7F2N3O	223.18
1004		2-Fluoro Efinaconazole	CC(N1CCC(CC1)=C)C(O)(C2=CC=CC=C2F)CN3N=CN=C3	Impurity	DCTI-C-2551	2-(2-fluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	NA	NA	C18H23FN4O/Neutral	330.41
1005		4-methylenepiperidine hydrochloride	C=C1CCNCC1.[H]Cl	IMPURITY	DCTI-C-2430	4-methylenepiperidine hydrochloride	148133-82-8 (Free Base); 144230-50-2 (HCl Salt)	NA	C6H11N (Free Base); C6H12ClN (HCl Salt)	97.16(Free Base); 133.62(HCl Salt)
1006	**Eganelisib**	Eganelisib Enantiomer	O=C(C1=C2N=CC=CN2N=C1N)N[C@@H](C3=CC4=C(C(N3C5=CC=CC=C5)=O)C(C#CC6=CN(C)N=C6)=CC=C4)C	Impurity	DCTI-C-3319	(R)-2-amino-N-(1-(8-((1-methyl-1H-pyrazol-4-yl)ethynyl)-1-oxo-2-phenyl-1,2-dihydroisoquinolin-3-yl)ethyl)pyrazolo[1,5-a]pyrimidine-3-carboxamide	2514278-92-1	NA	C30H24N8O2	528.58

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1007		Elagolix Formamide	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NC=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1892	(R)-N-(2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)ben zyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl) formamide	NA	ELXRC-7 Impurity; Elagolix N-formyl impurity	C29H24F5N3O4	573.52
1008		Elagolix Enantiomer Impurity	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@@H](NCCCC(O)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-2020	(S)-4-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-met hyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino) butanoic acid	NA	NA	C32H30F5N3O5	631.6
1009		Elagolix Diester Impurity	FC1=C(C(C(N2C[C@H](N(CCCC(OCC)=O)CCCC(OCC)=O)C3=CC=CC=C3)=O)=C(C)N(CC4=C(C(F)(F)F)C=CC=C4F)C2=O)C=CC=C1OC	impurity	DCTI-C-2021	Diethyl 4,4'-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromeththyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)azanediyl)(R)-di butyrate.	2316733-81-8	Elagolix impurity-18	C40H44F5N3O7	773.8
1010		Elagolix Propanoic acid analog	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NCCC(O)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-2022	(R)-3-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)ben zyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl) amino) propanoic acid	834153-88-7	NA	C31H28F5N3O5	617.57

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1011		Elagolix Hydroxyimino Impurity	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C/C(C3=CC=CC=C3)=N/O)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1893	(E)-5-(2-fluoro-3-methoxyphenyl)-1-(2-fluoro-6-(trifluoromethyl) benzyl)-3-(2-(hydroxyimino)-2-phenylethyl)-6-methylpyrimidine-2,4(1H,3H)-dione	NA	ELXRC-8 Impurity; Elagolix Oxime impurity	C28H22F5N3O4	559.49
1012		Desbutyrate Elagolix	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](N)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1354	(R)-3-(2-amino-2-phenylethyl)-5-(2-fluoro-3-methoxyphenyl)-1-(2-fluoro-6-(trifluoromethyl)benzyl)-6-methylpyrimidine-2,4(1H,3H)-dione	830346-50-4	Elagolix Impurity -A	$C_{28}H_{24}F_5N_3O_3$	545.51
1013		Elagolix Desfluoro Impurity 2	CC1=C(C2=CC(OC)=CC=C2)C(N(C[C@H](NCCCC(O)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1362	(R)-4-((2-(3-(2-fluoro-6-(trifluoromethyl)benzyl)-5-(3-methoxyphenyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino)butanoic acid	NA	NA	$C_{32}H_{31}F_4N_3O_5$	613.22
1014		Elagolix Desfluoro Impurity 1	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NCCCC(O)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4)=O)=O	impurity	DCTI-C-1361	(R)-4-((2-(5-(2-fluoro-3-methoxyphenyl)-4-methyl-2,6-dioxo-3-(2-(trifluoromethyl)benzyl)-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino)butanoic acid	NA	NA	$C_{32}H_{31}F_4N_3O_5$	613.22

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1015	Elagolix	Elagolix Sodium Dialkylated Impurity	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](N(CCCC(O[Na])=O)CCCC(O[Na])=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1358	sodium (R)-4,4'-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)azanediyl)dibutyrate	NA	Elagolix Impurity F	$C_{36}H_{36}F_5N_3O_7$, $C_{36}H_{34}F_5N_3Na_2O_7$	717.24, 761.65
1016		Elagolix Impurity B	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NCCCC(OC)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1355	methyl (R)-4-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino)butanoate	NA	NA	$C_{33}H_{32}F_5N_3O_5$	645.22
1017		Elagolix Impurity-C	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NCCCC(OCC)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O.Cl	impurity	DCTI-C-1356	ethyl (R)-4-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino)butanoate	NA	NA	$C_{34}H_{34}F_5N_3O_5$, $C_{34}H_{35}ClF_5N_3O_5$	659.65 (Free base), 696.11 (salt)
1018		Elagolix Keto Impurity	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(CC(C3=CC=CC=C3)=O)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1359	5-(2-fluoro-3-methoxyphenyl)-1-(2-fluoro-6-(trifluoromethyl)benzyl)-6-methyl-3-(2-oxo-2-phenylethyl)pyrimidine-2,4(1H,3H)-dione	NA	NA	$C_{28}H_{21}F_5N_2O_4$	544.14

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1019		Elagolix Sodium Impurity-1	CC1=CC(N(C[C@H](NCCCC(O[Na])=O)C2=CC=CC=C2)C(N1CC3=C(C(F)(F)F)C=CC=C3F)=O)=O	impurity	DCTI-C-1363	sodium (R)-4-((2-(3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino)butanoate	NA	NA	$C_{25}H_{24}F_4N_3NaO_4$ (salt), $C_{25}H_{25}F_4N_3O_4$ (free acid)	529.47 (salt), 507.49 (freeacid)
1020		Elagolix Sodium Impurity-E	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](N3CCCC3=O)C4=CC=CC=C4)C(N1CC5=C(C(F)(F)F)C=CC=C5F)=O)=O	impurity	DCTI-C-1357	(R)-5-(2-fluoro-3-methoxyphenyl)-1-(2-fluoro-6-(trifluoromethyl)benzyl)-6-methyl-3-(2-(2-oxopyrrolidin-1-yl)-2-phenylethyl)pyrimidine-2,4(1H,3H)-dione	NA	NA	$C_{32}H_{28}F_5N_3O_4$	613.58
1021		N-Boc desbutyrate Elagolix	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NC(OC(C)(C)C)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1360	tert-butyl (R)-(2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)carbamate	830346-51-5	Elagolix Impurity 9	$C_{33}H_{32}F_5N_3O_5$	645.627
1022		Elagolix Impurity D	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](NC)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	impurity	DCTI-C-1606	(R)-5-(2-fluoro-3-methoxyphenyl)-1-(2-fluoro-6-(trifluoromethyl)benzyl)-6-methyl-3-(2-(methylamino)-2-phenylethyl)pyrimidine-2,4(1H,3H)-dione	1062642-62-9	Elagolix N-Methyl impurity	$C_{29}H_{26}F_5N_3O_3$	559.54

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1023		O-Demethyl Elagolix	OC1=CC=CC(C(C(N2C[C@H](NCCCC(O)=O)C3=CC=CC=C3)=O)=C(C)N(CC4=C(C(F)(F)F)C=CC=C4F)C2=O)=C1F	impurity	DCTI-C-1200	(R)-4-((2-(5-(2-fluoro-3-hydroxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)amino)butanoic acid	832720-51-1	NA	C31H28F5N3O5	617.57
1024		Elagolix Nitroso Impurity	CC1=C(C2=C(F)C(OC)=CC=C2)C(N(C[C@H](N(N=O)CCCC(O)=O)C3=CC=CC=C3)C(N1CC4=C(C(F)(F)F)C=CC=C4F)=O)=O	NDSRI	DCTI-C-3765	(R)-4-((2-(5-(2-fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)(nitroso) amino)butanoic acid	NA	NA	C32H29F5N4O6	660.59
1025		Elagolix Dialkylated Impurity	O=C(N1C[C@H](N(CCCC(O)=O)CCCC(O)=O)C2=CC=CC=C2)C(C3=CC=CC(OC)=C3F)=C(C)N(CC4=C(C(F)(F)F)C=CC=C4F)C1=O	IMPURITY	DCTI-C-3387	(R)-4,4'-((2-(5-(2-Fluoro-3-methoxyphenyl)-3-(2-fluoro-6-(trifluoromethyl)benzyl)-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2H)-yl)-1-phenylethyl)azanediyl)dibutyric acid	2409132-60-9	na	C36H36F5N3O7	717.69
1026	**Eletriptan**	Eletriptan Impurity 8	CN1[C@@H](CC2=CNC3=C2C=CC=C3)CCC1	impurity	DCTI-C-2023	(R)-3-((1-methylpyrrolidin-2-yl) methyl)-1H-indole	143322-55-8	1H-Indole, 3-[(1-methyl-2-pyrrolidinyl)methyl]-, (R)-;3-[[(2R)-1-Methyl-2-pyrrolidinyl]methyl]-1H-indole;3-[[(2R)-1-Methylpyrrolidin-2-yl]methyl]-1H-indole.	C14H18N2	214.31
1027		Eletriptan Impurity 10	O=S(CCC1=CC2=C(NC=C2)C=C1)(C3=CC=CC=C3)=O	impurity	DCTI-C-2024	5-(2-(phenylsulfonyl)ethyl)-1H-indole	1225327-16-1	Des-dimethylpyrrolidine Eletriptan.	C16H15NO2S	285.36

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1028		Eletriptan Impurity 9	CN1[C@@H](CC2=CNC3=C2C=C(Br)C=C3)CCC1	impurity	DCTI-C-2025	(R)-5-bromo-3-((1-methylpyrrolidin-2-yl)methyl)-1H-indole	143322-57-0	1H-Indole, 5-bromo-3-[(1-methyl-2-pyrrolidinyl)methyl]-, (R)-;5-Bromo-3-[[(2R)-1-methyl-2-pyrrolidinyl]methyl]-1H-indole;(R)-5-Bromo-3-(N-methylpyrrolidin-2-ylmethyl)-1H-indole;5-Bromo-3-[[(2R)-1-methylpyrrolidin-2-yl]methyl]-1H-indole.	C14H17BrN2	293.21
1029		(1S, 2S)-Eliglustat	O[C@@H](C1=CC=C(OCCO2)C2=C1)[C@H](CN3CCCC3)NC(CCCCCCC)=O	Impurity	DCTI-C-062	N-((1S,2S)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide	1092472-70-2	NA	C23H36N2O4	404.55
1030		1R 2S Eliglustat	O[C@H](C1=CC=C(OCCO2)C2=C1)[C@H](CN3CCCC3)NC(CCCCCCC)=O	Impurity	DCTI-C-065	N-((1R,2S)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide	1092472-65-5	Eliglustat Diastereomer (1R, 2S)	C23H36N2O4	404.55
1031		1S 2R-Eliglustat	O[C@@H](C1=CC=C(OCCO2)C2=C1)[C@@H](CN3CCCC3)NC(CCCCCCC)=O	Impurity	DCTI-C-063	N-((1S,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide	1092472-66-6	NA	C23H36N2O4	404.55
1032		Eliglustat Heptanoic acid	O[C@@H]([C@@H](CN1CCCC1)NC(CCCCCC)=O)C2=CC=C(OCCO3)C3=C2	Impurity	DCTI-C-149	N-((1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)heptanamide	NA	NA	C22H34N2O4	390.52
1033		(1S, 2R) Eliglustat Hemi Tartaric Salt	O[C@@H]([C@@H](NC(CCCCCCC)=O)CN1CCCC1)C2=CC=C(OCCO3)C3=C2.OC([C@@H]([C@H](C(O)=O)O)O)=O.[R].[R].[R].[(s)]	Impurity	DCTI-C-287	N-((1S,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide(2R,3R)-2,3-dihydroxysuccinate	NA	Eliglustat Diastereomers	C23H36N2O4 (Free Base) C25H39N2O7 (salt)	404.54 (Free Base) 479.59 (salt)
1034		(1R, 2S) Eliglustat Hemi Tartaric Salt	O[C@H]([C@H](NC(CCCCCCC)=O)CN1CCCC1)C2=CC=C(OCCO3)C3=C2.OC([C@@H]([C@H](C(O)=O)O)O)=O.[R].[R].[R].[S]	Impurity	DCTI-C-288	N-((1R,2S)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide(2R,3R)-2,3-dihydroxysuccinate	NA	Eliglustat Diastereomers	C23H36N2O4 (Free Base) C25H39N2O7 (salt)	404.54 (Free Base) 479.59 (salt)

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1035	Eliglustat	(1S, 2S) Eliglustat Hemi Tartaric Salt	O[C@@H]([C@H](NC(CCCCCCC)=O)CN1CCCC1)C2=CC=C(OCCO3)C3=C2.OC([C@@H]([C@H](C(O)=O)O)O)=O.[R].[R].[S].[S]	Impurity	DCTI-C-021	N-((1S,2S)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide(2R,3R)-2,3-dihydroxysuccinate	NA	Eliglustat Enantiomer	C23H36N2O4 (Free Base) C25H39N2O7 (salt)	404.54 (Free Base) 479.59 (salt)
1036		Eliglustat Hemi Tartaric Salt (Mixtures of Isomers)	OC(C(NC(CCCCCCC)=O)CN1CCCC1)C2=CC=C(OCCO3)C3=C2.OC([C@@H]([C@H](C(O)=O)O)O)=O.[R].[R]	Impurity	DCTI-C-150	N-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)octanamide(2R,3R)-2,3-dihydroxysuccinate	NA	Eliglistat all Isomers	C27H42N2O10	554.64 (salt) 404.55 (free base)
1037		Eliglustat Impurity A	O[C@H]([C@H](CN1CCCC1)NC(CCCCCC)=O)C2=CC=C(OCCO3)C3=C2.OC([C@H](O)[C@@H](O)C(O)=O)=O	Impurity	DCTI-C-022	N-((1S,2S)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)heptanamide (2R,3R)-2,3-dihydroxysuccinate	NA	NA	C26H40N2O10 (Salt) C22H34N2O4 (Free base)	540.61 (Salt) 390.52 (Free base)
1038		Eliglustat Impurity B	OC(C(CN1CCCC1)N)C2=CC=C(OCCO3)C3=C2	Impurity	DCTI-C-151	2-amino-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-3-(pyrrolidin-1-yl)propan-1-ol	NA	NA	C15H22N2O3	278.35
1039		Eliglustat O-Octanyl Impurity	O=C(CCCCCCC)N[C@H](CN1CCCC1)[C@H](OC(CCCCCCC)=O)C2=CC=C(OCCO3)C3=C2	Impurity	DCTI-C-173	(1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-2-octanamido-3-(pyrrolidin-1-yl)propyl octanoate	2193052-06-9	NA	C31H50N2O5	530.75
1040		Eliglustat N-Oxide	O[C@H](C1=CC=C(OCCO2)C2=C1)[C@@H](C[N+]3([O-])CCCC3)NC(CCCCCCC)=O	Impurity	DCTI-C-174	1-((2R,3R)-3-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-3-hydroxy-2-octanamidopropyl)pyrrolidine 1-oxide	2137145-62-9	NA	C23H36N2O5	420.55
1041		N-Acetyl impurity(Eliglustat)	O[C@@H]([C@@H](CN1CCCC1)NC(C)=O)C2=CC(OCCO3)=C3C=C2	Impurity	DCTI-C-481	N-((1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)acetamide	2219353-50-9	Eliglustat N-Acetyl impurity	C17H24N2O4	320.39

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1042		(1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-2-((2-((2-hydroxy-1-phenylethyl)amino)ethyl)amino)-3-(pyrrolidin-1-yl)propan-1-ol	O[C@@H]([C@@H](CN1CCCC1)NCCNC(C2=CC=CC=C2)CO)C3=CC=C(OCCO4)C4=C3	Impurity	DCTI-C-498	(1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-2-((2-((2-hydroxy-1-phenylethyl)amino)ethyl)amino)-3-(pyrrolidin-1-yl)propan-1-ol	1092465-25-2	NA	C25H35N3O4	441.57
1043		Eliglustat Decanoic acid	O[C@H](C1=CC=C(OCCO2)C2=C1)[C@@H](CN3CCCC3)NC(CCCCCCCCC)=O	Impurity	DCTI-C-499	N-((1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)decanamide	491833-31-9	NA	C25H40N2O4	432.61
1044		Eliglustat Nonanoic acid	O[C@H](C1=CC=C(OCCO2)C2=C1)[C@@H](CN3CCCC3)NC(CCCCCCCC)=O	Impurity	DCTI-C-500	N-((1R,2R)-1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-(pyrrolidin-1-yl)propan-2-yl)nonanamide	491833-30-8	NA	C24H38N2O4	418.58
1045		ELG-Oxopropen Octanamide	C=C(NC(CCCCCCC)=O)C(C1=CC(OCCO2)=C2C=C1)=O	Impurity	DCTI-C-573	N-(3-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-3-oxoprop-1-en-2-yl)octanamide	NA	NA	C19H25NO4	331.41
1046		Eliglustat Amide Impurity	CCCCCCCC(NC(C(N1CCCC1)=O)C(C2=CC=C3OCCOC3=C2)O)=O	Impurity	DCTI-C-2651	N-(1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-oxo-3-(pyrrolidin-1-yl)propan-2-yl)octanamide	NA	NA	C23H34N2O5	418.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1047		Eliglustat Amide Nonanoyl Impurity	O=C(NC(C(N1CCCC1)=O)C(C2=CC=C(OCCO3)C3=C2)O)CCCCCCCC	Impurity	DCTI-C-2520	N-(1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1-hydroxy-3-oxo-3-(pyrrolidin-1-yl)propan-2-yl)nonanamide	NA	NA	C24H36N2O5	432.56
1048	**Elvitegravir**	Elvitegravir Impurity 1	FC1=C(CC2=CC=C(C=C2OC)OC)C=CC=C1Cl	Impurity	DCTI-C-2833	1-chloro-3-(2,4-dimethoxybenzyl)-2-fluorobenzene	1484038-03-0	DME-IIB	C15H14ClFO2	280.72
1049	**Elobixibat**	Elobixibat Acid Methyl Ester Impurity	O=S1(C2=C(N(C3=CC=CC=C3)CC(CCCC)(CCCC)C1)C=C(SC)C(OCC(N[C@H](C4=CC=CC=C4)C(NCC(OC)=O)=O)=O)=C2)=O	impurity	DCTI-C-2223	Methyl (R)-(2-(2-((3,3-dibutyl-7-(methylthio)-1,1-dioxido-5-phenyl-2,3,4,5-tetra hydrobenzo[b][1,4] thiazepin-8-yl) oxy)acetamido)-2-phenylacetyl)glycinate.	NA	NA	C37H47N3O7S2	709.92
1050		Elobixibat Ethyl Ester Impurity	O=S1(C2=C(N(C3=CC=CC=C3)CC(CCCC)(CCCC)C1)C=C(SC)C(OCC(N[C@H](C4=CC=CC=C4)C(NCC(OCC)=O)=O)=O)=C2)=O	impurity	DCTI-C-2224	Ethyl (R)-(2-(2-((3,3-dibutyl-7-(methylthio)-1,1-dioxido-5-phenyl-2,3,4,5-tetra hydrobenzo[b][1,4]thiazepin-8-yl)oxy)acetamido)-2-phenylacetyl)glycinate.	NA	NA	C38H49N3O7S2	723.94
1051		Elobixibat acid Impurity	O=C(O)[C@H](NC(COC1=C(SC)C=C(N(C2=CC=CC=C2)CC(CCCC)(CCCC)C3)C(S3(=O)=O)=C1)=O)C4=CC=CC=C4	IMPURITY	DCTI-C-2448	(R)-2-(2-((3,3-dibutyl-7-(methylthio)-1,1-dioxido-5-phenyl-2,3,4,5-tetrahydrobenzo[b][1,4]thiazepin-8-yl)oxy)acetamido)-2-phenylacetic acid	439086-76-7	NA	C34H42N2O6S2	638.84

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1052		Elobixibat Methyl Ester Impurity	O=C(OC)[C@H](NC(COC1=C(SC)C=C(N(C2=CC=CC=C2)CC(CCCC)(CCCC)C3)C(S3(=O)=O)=C1)=O)C4=CC=CC=C4	IMPURITY	DCTI-C-2449	Methyl (R)-2-(2-((3,3-dibutyl-7-(methylthio)-1,1-dioxido-5-phenyl-2,3,4,5-tetrahydrobenzo[b][1,4]thiazepin-8-yl)oxy)acetamido)-2-phenylacetate	439088-19-4	NA	C35H44N2O6S2	652.87
1053		Elobixibat Phenol Impurity	CSC1=C(O)C=C(C(N(C2=CC=CC=C2)CC(CCCC)(CCCC)C3)=C1)S3(=O)=O	IMPURITY	DCTI-C-2450	3,3-dibutyl-8-hydroxy-7-(methylthio)-5-phenyl-2,3,4,5-tetrahydrobenzo[b][1,4]thiazepine 1,1-dioxide	439088-16-1	NA	C24H33NO3S2	447.65
1054		Eltrombopag dimer-1 impurity	CC1=NN(C(/C1=N\NC2=C(O)C(C3=CC(C(NCCOC(C4=CC=CC(C5=CC=CC(N/N=C(C(C)=NN6C7=CC(C)=C(C)C=C7)\C6=O)=C5O)=C4)=O)=O)=CC=C3)=CC=C2)=O)C8=CC(C)=C(C)C=C8	impurity	DCTI-C-2026	2-(3'-(2-((Z)-1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-ylidene)hydrazinyl)-2'-hydroxy-[1,1'-biphenyl]-3-carboxamido)ethyl 3'-(2-((Z)-1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-ylidene)hydrazinyl)-2'-hydroxy-[1,1'-biphenyl]-3-carboxylate	NA	Eltrombopag Ethanolamine dimer.	C52H47N9O7	910
1055		Eltrombopag amide impurity	CC1=NN(C(/C1=N\NC2=C(O)C(C3=CC(C(N)=O)=CC=C3)=CC=C2)=O)C4=CC(C)=C(C)C=C4	Impurity	DCTI-C-2553	(Z)-3'-(2-(1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-ylidene)hydrazinyl)-2'-hydroxy-[1,1'-biphenyl]-3-carboxamide	1246929-02-1	Eltrombopag amide;[1,1'-Biphenyl]-3-carboxamide, 3'-[(2Z)-2-[1-(3,4-dimethylphenyl)-1,5-dihydro-3-methyl-5-oxo-4H-pyrazol-4-ylidene]hydrazinyl]-2'-hydroxy; 3′-[(2Z)-2-[1-(3,4-Dimethylphenyl)-1,5-dihydro-3-methyl-5-oxo-4H-pyrazol-4-ylidene]hydrazinyl]-2′-hydroxy[1,1′-biphenyl]-3-carboxamide	C25H23N5O3	441.49
1056	**Eltrombopag**	Eltrombopag Olamine ELA Olamine Amide Impurity	CC1=NN(C(/C1=N\NC2=C(O)C(C3=CC(C(NCCO)=O)=CC=C3)=CC=C2)=O)C4=CC(C)=C(C)C=C4	Impurity	DCTI-C-2935	(Z)-3'-(2-(1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-ylidene)hydrazinyl)-2'-hydroxy-N-(2-hydroxyethyl)-[1,1'-biphenyl]-3-carboxamide	NA	NA	C27H27N5O4	485.54
1057		Eltrombopag Methyl Ester	COC(C1=CC=CC(C2=CC=CC(N/N=C3C(C)=NN(C4=CC(C)=C(C=C4)C)C/3=O)=C2O)=C1)=O	Impurity	DCTI-C-3180	methyl (Z)-3'-(2-(1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-ylidene)hydrazinyl)-2'-hydroxy-[1,1'-biphenyl]-3-carboxylate	1246929-01-0	NA	C26H24N4O4	456.5

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1058		2'-[Hydroxybiphenyl]-3-carboxylic acid	O=C(O)C1=CC=CC(C2=CC=CC=C2O)=C1	Impurity	DCTI-C-3188	2'-hydroxy-[1,1'-biphenyl]-3-carboxylic acid	893736-72-6	NA	C13H10O3	214.22
1059		Eltrombopag Ethyl Ester	O=C(C1=CC(C2=CC=CC(N/N=C3C(C)=NN(C4=CC=C(C)C(C)=C4)C/3=O)=C2O)=CC=C1)OCC	IMPURITY	DCTI-C-3445	ethyl (Z)-3'-(2-(1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-ylidene)hydrazineyl)-2'-hydroxy-[1,1'-biphenyl]-3-carboxylate	NA	NA	C27H26N4O4	470.53
1060	Empagliflozin	Empagliflozin Impurity 9	OCC1=CC=C(C(CCCC)=O)O1	Impurity	DCTI-C-614	1-(5-(hydroxymethyl)furan-2-yl)pentan-1-one	2265225-32-7	NA	C10H14O3	182.22
1061		(2-chloro-5-iodophenyl)(2-fluoro-4-methylphenyl)methanone	O=C(C1=CC=C(C)C=C1F)C2=C(Cl)C=CC(I)=C2	impurity	DCTI-C-1044	(2-chloro-5-iodophenyl)(2-fluoro-4-methylphenyl)methanone	2452301-26-5	NA	C14H9ClFIO	374.58
1062		(2-chloro-5-iodophenyl)(2-fluoro-5-methylphenyl)methanone	O=C(C1=CC(C)=CC=C1F)C2=C(Cl)C=CC(I)=C2	impurity	DCTI-C-1045	(2-chloro-5-iodophenyl)(2-fluoro-5-methylphenyl)methanone	2452301-25-4	NA	C14H9ClFIO	374.58
1063		(2-chloro-5-iodophenyl)(2-fluorophenyl)methanone	O=C(C1=CC=CC=C1F)C2=C(Cl)C=CC(I)=C2	impurity	DCTI-C-1046	(2-chloro-5-iodophenyl)(2-fluorophenyl)methanone	2452301-23-2	NA	C13H7ClFIO	360.55
1064		(2,5-diiodophenyl)(2-fluorophenyl)methanone	O=C(C1=CC=CC=C1F)C2=C(I)C=CC(I)=C2	impurity	DCTI-C-1047	(2,5-diiodophenyl)(2-fluorophenyl)methanone	2452301-24-3	NA	C13H7FI2O	452.01

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1065		Silicon Impurity Standard	ClC1=CC=C([Si](C)(C)C)C=C1CC2=CC=C(O[C@H]3CCOC3)C=C2	Impurity	DCTI-C-2936	(S)-(4-chloro-3-(4-((tetrahydrofuran-3-yl)oxy)benzyl)phenyl)trimethylsilane	2819995-58-7	NA	C20H25ClO2Si	360.95
1066		Empagliflozin keto impurity	ClC(C=CC([C@H]1[C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O1)=C2)=C2C(C3=CC=C(O[C@@H]4COCC4)C=C3)=O	Impurity	DCTI-C-3396	(2-chloro-5-((2S,3R,4R,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)phenyl)(4-(((S)-tetrahydrofuran-3-yl)oxy)phenyl)methanone	2125472-55-9	NA	C23H25ClO8	464.89
1067		Hydroxy Empagliflozin impurity	ClC(C=CC([C@H]1[C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O1)=C2)=C2C(O)C3=CC=C(O[C@@H]4COCC4)C=C3	Impurity	DCTI-C-3397	(2S,3R,4R,5S,6R)-2-(4-chloro-3-(hydroxy(4-(((S)-tetrahydrofuran-3-yl)oxy)phenyl)methyl)phenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol	2137418-13-2	NA	C23H27ClO8	466.91
1068	**Emtricitabine**	(2R,5R)-Emtricitabine	NC1=NC(N([C@@H]2O[C@@H](CO)SC2)C=C1F)=O	Impurity	DCTI-C-526	4-amino-5-fluoro-1-((2R,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	483299-09-8 (HCl Salt)	5-epi Emtricitabine, α-L-FTC	C8H10FN3O3S	247.24
1069		Emtricitabine Diastereomer	NC1=NC(N([C@@H]2O[C@H](CO)SC2)C=C1F)=O.NC3=NC(N([C@H]4O[C@H](CO)SC4)C=C3F)=O	Impurity	DCTI-C-1738	4-amino-5-fluoro-1-((2S,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one and 4-amino-5-fluoro-1-((2S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	NA	Emtricitabine Diastereomer at~1.33RRT	C8H10FN3O3S	247.24
1070		(2S,5S)-Emtricitabine	NC1=NC(N([C@H]2O[C@H](CO)SC2)C=C1F)=O	Impurity	DCTI-C-527	4-amino-5-fluoro-1-((2S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	145416-34-8	2-epi Emtricitabine	C8H10FN3O3S	247.24
1071		C-Desmethyl enzalutamide acid impurity	NC1=NC(N([C@@H]2O[C@H](CO)SC2)C=C1F)=O	Impurity	DCTI-C-617	4-amino-5-fluoro-1-((2S,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	137530-41-7	(+)-FTC	C8H10FN3O3S	247.24

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1072	**Enalapril**	N-Nitroso-Enalapril	O=C([C@H]1N(CCC1)C([C@H](C)N(N=O)[C@@H](CCC2=CC=CC=C2)C(OCC)=O)=O)O	NDSRI	DCTI-C-3653	N-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-N-nitroso-L-alanyl-L-proline	NA	N-Nitroso-Enalapril (mixture of isomers)	C20H27N3O6	405.45
1073	**Enrofloxacin**	Enrofloxacin Impurity F	O=C1C2=C(C=C(N3CCN(CC)CC3)C(F)=C2)N(C4CC4)C=C1	Impurity	DCTI-C-197	1-cyclopropyl-7-(4-ethylpiperazin-1-yl)-6-fluoroquinolin-4(1H)-one	131775-99-0	NA	C18H22FN3O	315.39
1074		Des Fluoro Enzalutamide	FC(F)(F)C1=C(C#N)C=CC(N(C(C)(C)2C)=O)C(N2C3=CC=C(C(NC)=O)C=C3)=S)=C1	Impurity	DCTI-C-411	4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-N-methylbenzamide	915087-16-0	Defluoro-MDV 3100	C21H17F3N4O2S	446.45
1075		Methyl (4-cyano-3-(trifluoromethyl)phenyl)carbamate	O=C(OC)NC1=CC(C(F)(F)F)=C(C#N)C=C1	impurity	DCTI-C-1832	methyl (4-cyano-3-(trifluoromethyl)phenyl)carbamate	NA	Enzalutamide methylcarbamate Impurity	C10H7F3N2O2	244
1076		Enazalutamide Impurity A	NC1=CC=C(C#N)C(C(F)(F)F)=C1	Impurity	DCTI-C-2259	4-amino-2-(trifluoromethyl)benzonitrile	NA	4-amino-α,α, α-trifluoro; 2-trifluoromethyl-4-aminobenzonitrile; 4-cyano-3-(trifluoromethyl)aniline; Bicalutamide EP impurity D	$C_8H_5F_3N_2$	186.14
1077		Enzalutamide Desfluoro N-Methyl impurity	S=C(N(C1=CC=C(C(NC)=O)C(NC)=C1)C(C)(C)C2=O)N2C3=CC(C(F)(F)F)=C(C#N)C=C3	impurity	DCTI-C-2027	4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-N-methyl-2-(methylamino)benzamide	NA	NA	C22H20F3N5O2S	475.49

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1078	Enzalutamide	Enzalutamide Desfluoro N-Methyl Methylbenzoate impurity	S=C(N(C1=CC=C(C(OC)=O)C(NC)=C1)C(C)(C)C2=O)N2C3=CC(C(F)(F)F)=C(C#N)C=C3	impurity	DCTI-C-2028	Methyl4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-(methylamino)benzoate	NA	NA	C22H19F3N4O3S	476.47
1079		ENZ cyano desfluoro impurity	O=C(NC)C1=CC=C(NC(C)(C)C#N)C=C1	Impurity	DCTI-C-516	4-((2-cyanopropan-2-yl)amino)-N-methylbenzamide	2346499-26-9	NA	C12H15N3O	217.27
1080		5-Amino-2-fluoro-N-methylbenzamide hydrochloride	FC1=C(C(NC)=O)C=C(N)C=C1.Cl	Impurity	DCTI-C-528	5-amino-2-fluoro-N-methylbenzamide hydrochloride	1242840-35-2	NA	C8H10ClFN2O	204.63
1081		4-Amino-2-fluoro-N-Methyl benzamide Impurity	NC1=CC=C(C(NC)=O)C(F)=C1	Impurity	DCTI-C-1758	4-amino-2-fluoro-N-methylbenzamide	NA	NA	C8H9FN2O	168.1
1082		Enzalutamide Impurity P	FC1=CC(NC(C)(C)C(O)=O)=CC=C1C(NC)=O	Impurity	DCTI-C-1759	2-((3-fluoro-4-(methylcarbamoyl)phenyl)amino)-2-methylpropanoic acid	NA	NA	C12H15FN2O3	254.26
1083		Oxo-Enzalutamide	CC1(C)C(N(C2=CC(C(F)(F)F)=C(C#N)C=C2)C(N1C3=CC(F)=C(C(NC)=O)C=C3)=O)=O	Metabolite	DCTI-C-1760	4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-2,4-dioxoimidazolidin-1-yl)-2-fluoro-N-methylbenzamide	NA	Enzalutamide impurity 4, OXO-MDV3100 (Oxo-Enzalutamide)	C21H16F4N4O3	448.38
1084		ENZ DIAMIDE Impurity	NC(C1=C(C(F)(F)F)C=C(N2C(N(C3=CC=C(C(NC)=O)C(F)=C3)C(C)(C)C2=O)=S)C=C1)=O	Impurity	DCTI-C-797	4-(3-(4-carbamoyl-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-fluoro-N-methylbenzamide	2030242-21-6	NA	C21H18F4N4O3S	482.45

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1085		N-Desmethyl Enzalutamide	O=C(C1(C)C)N(C2=CC=C(C#N)C(C(F)(F)F)=C2)C(N1C3=CC=C(C(N)=O)C(F)=C3)=S	Metabolite	DCTI-C-1152	4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-fluorobenzamide	1242137-16-1	N-Desmethyl MDV 3100	C20H14F4N4O2S	450.41
1086		Enzalutamide Carboxylic Acid	S=C(N1C2=CC=C(C(F)=C2)C(O)=O)N(C3=CC=C(C(C(F)(F)F)=C3)C#N)C(C(C)1C)=O	Metabolite	DCTI-C-1168	4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-fluorobenzoic acid	1242137-15-0	Enzalutamide Impurity 5	C20H13F4N3O3S	451.4
1087		C-Desmethyl enzalutamide acid impurity	O=C1C(C)N(C2=CC=C(C(O)=O)C(F)=C2)C(N1C3=CC(C(F)(F)F)=C(C#N)C=C3)=S	impurity	DCTI-C-1197	4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5-methyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-fluorobenzoic acid	NA	NA	C19H11F4N3O3S	437.37
1088		Enzalutamide methyl ester	COC(C1=C(F)C=C(N2C(N(C(C2(C)C)=O)C3=CC(C(F)(F)F)=C(C#N)C=C3)=S)C=C1)=O	Impurity	DCTI-C-2815	methyl 4-(3-(4-cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-fluorobenzoate	1802242-43-8	NA	C21H15F4N3O3S	465.42
1089		1,3-bis(4-cyano-3-(trifluoromethyl)phenyl)-1-methylurea	O=C(NC1=CC=C(C#N)C(C(F)(F)F)=C1)N(C2=CC=C(C#N)C(C(F)(F)F)=C2)C	IMPURITY	DCTI-C-2426	1,3-bis(4-cyano-3-(trifluoromethyl)phenyl)-1-methylurea	NA	NA	C18H10F6N4O	412.3
1090		Epinephrine Impurity 1	OC1=CC=C(C(CNC)O)C=C1OS(=O)(O)=O	Metabolite	DCTI-C-131	2-hydroxy-5-(1-hydroxy-2-(methylamino)ethyl)phenyl hydrogen sulfate	112346-91-5	NA	C9H13NO6S	263.26
1091		Epinephrine Sulfate	OC1=CC(C(CNC)O)=CC=C1OS(=O)(O)=O	Metabolite	DCTI-C-137	2-hydroxy-4-(1-hydroxy-2-(methylamino)ethyl)phenyl hydrogen sulfate	21093-18-5	NA	C9H13NO6S	263.26

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1092	Epinephrine	DL-Normetanephrine Sulfate	OC(CN)C1=CC=C(OS(=O)(O)=O)C(OC)=C1.O=CC(F)(F)F	Metabolite	DCTI-C-141	4-(2-amino-1-hydroxyethyl)-2-methoxyphenyl hydrogen sulfate	1215-29-8	NA	C9H13NO6S	263.26
1093		1-(4-hydroxy-3-methoxyphenyl)-2-(methylamino)ethan-1-one hydrochloride	OC1=CC=C(C(CNC)=O)C=C1OC.[H]Cl	IMPURITY	DCTI-C-3270	1-(4-hydroxy-3-methoxyphenyl)-2-(methylamino)ethan-1-one hydrochloride	13062-64-1	NA	Free Base:C10H13NO3; HCl Salt: C10H14ClNO3	Free Base: 195.22; HCl Salt: 231.68
1094		Epinephrine Impurity 22 HCl	OC1=CC=C(C(CNCC)=O)C=C1O.[H]Cl	IMPURITY	DCTI-C-3249	1-(3,4-dihydroxyphenyl)-2-(ethylamino)ethan-1-one hydrochloride	59643-82-2	Adrenaline Impurity 22 HCl	Free Base: C10H13NO3;HCl Salt: C10H14ClNO3	Free Base: 195.22;HCl Salt: 231.68
1095		Metanephrine.HCl	OC1=CC=C(C(O)CNC)C=C1OC.[H]Cl	IMPURITY	DCTI-C-3248	4-(1-hydroxy-2-(methylamino)ethyl)-2-methoxyphenol hydrochloride	881-95-8	rac Metanephrine Hydrochloride Salt,D,L-Metanephrine hydrochloride	Free Base;C10H15NO3; HCl Salt:C10H16ClNO3	Free Base: 197.23; HCl Salt: 233.69
1096		Epinephrine Impurity 24	OC1=C(O)C=CC(C(O)CNCC)=C1	Impurity	DCTI-C-3338	4-(2-(ethylamino)-1-hydroxyethyl)benzene-1,2-diol	2947-00-4	NA	C10H15NO3	197.23
1097		Oxedrine	OC1=CC=C(C(O)CNC)C=C1	Impurity	DCTI-C-3779	4-(1-hydroxy-2-(methylamino)ethyl)phenol	94-07-5	(±)-Synephrine	C9H13NO2	167.21
1098		N-Benzyladrenalone Impurity E	O=C(CN(C)CC1=CC=CC=C1)C2=CC=C(C(O)=C2)O.O=C(C(F)(F)F)O	Impurity	DCTI-C-3797	2-(benzyl(methyl)amino)-1-(3,4-dihydroxyphenyl)ethan-1-one 2,2,2-trifluoroacetate	NA	NA	C16H17NO3 (Free base) C18H18F3NO5 (Salt)	271.12 (Free base) 385.11(Salt)
1099		Adrenochrome	O=C1C=C2C(O)CN(C)C2=CC1=O	IMPURITY	DCTI-C-1453	3-hydroxy-1-methyl-2,3-dihydro-1H-indole-5,6-dione	54-06-8	na	C9H9NO3	179.18

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1100		Bis Hydroxy N-Methyl Piperazine Hydrochloride	CN1CC(C2=CC=C(O)C(O)=C2)N(C)CC1C3=CC=C(O)C(O)=C3.[H]Cl	IMPURITY	DCTI-C-3260	4,4'-(1,4-dimethylpiperazine-2,5-diyl)bis(benzene-1,2-diol) hydrochloride	na	na	C18H23ClN2O4(salt);C18H22N2O4(free base)	366.84(salt);330.38(free base)
1101	Eplerenone	Eplerenone Impurity A	C[C@@]12[C@](OC3=O)(CC3)CC[C@@]1([H])C4[C@H]5CC6=CC(CC[C@]6(C)[C@@]4(OC5=O)CC2)=O	impurity	DCTI-C-1689	(2R,7'R,9'R,10'S,13'S,14'S)-10',13'-dimethyl-1',3,4,7',8',10',11',12',13',14',15',16'-dodecahydro-2'H,5H-spiro[furan-2,17'-[9,7](epoxymethano)cyclopenta[a]phenanthrene]-3',5,19'(6'H)-trione	209253-67-8	3-Oxo-17α-pregn-4-ene-7α,9:21,17-dicarbolactone; Pregn-4-ene-7,21-dicarboxylic acid, 9,17-dihydroxy-3-oxo-,di-γ-lactone, (7α,17α); Pregn-4-ene-7,21-dicarboxylic acid, 9,17-dihydroxy-3-oxo-,7,9:21,17-dilactone, (7α,17α); Eplerenone EP Impurity A	C23H28O5	384.47
1102		Eplerenone EP Impurity E	C[C@@]12[C@](OC3=O)(CC3)CC[C@@]1([H])[C@]4([H])[C@H](C(OC)=O)CC5=CC(CC[C@]5(C)[C@@]46[C@H](O6)C2)=O	Impurity	DCTI-C-2260	methyl (4aS,4bR,5aR,6aS,7R,9aS,9bR,10R)-4a,6a-dimethyl-2,5'-dioxo-2,4,4a,4',5a,5',6,6a,8,9,9a,9b,10,11-tetradecahydro-3H,3'H-spiro[cyclopenta[1,2]phenanthro[4,4a-b]oxirene-7,2'-furan]-10-carboxylate	NA	7beta-Eplerenone; Eplerenone impurity E; (7β,11α, 17α)-9,11-Epoxy-17-hydroxy-3-oxo-pregn-4-ene-7,21-dicarboxylic acid γ-lactone methyl ester.	C24H30O6	414.5
1103		Eplerenone EP Impurity C	C[C@@]12[C@](OC3=O)(CC3)CC[C@@]1([H])[C@]4([H])[C@H](C(OC)=O)CC5=CC(CC[C@]5(C)C4=CC2)=O	impurity	DCTI-C-2029	methyl (7R,8R,10S,13S,14S,17R)-10,13-dimethyl-3,5'-dioxo-1,2,3,4',5',6,7,8,10,12,13, 14,15,16-tetradecahydro-3'H-spiro[cyclopenta[a]phenanthrene-17,2'-furan]-7-carboxylate	95716-70-4	Pregna-4,9(11)-diene-7,21-dicarboxylic acid, 17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,17α); 7α-(Methoxycarbonyl)-9(11)Δ-canrenone; Δ9,11-Eplerenone; Eplerenone Impurity C	C24H30O5	398.5
1104		Eplerenone Impurity B	C[C@@]12[C@](OC3=O)(CC3)CC[C@@]1([H])[C@]4([H])[C@H](C(OC)=O)CC5=CC(CC[C@]5(C)C4[C@H]6[C@@H]2O6)=O	impurity	DCTI-C-1690	methyl (1R,3aS,3bS,4R,9aR,9cS,10aR,10bR)-9a,10b-dimethyl-5',7-dioxo-2,3,3a,3b,4,4',5,5',7,8,9,9a,9b,9c,10a,10b-hexadecahydro-3'H-spiro[cyclopenta[1,2]phenanthro[3,4-b]oxirene-1,2'-furan]-4-carboxylate	192704-82-8	Spiro[11,12-epoxy-17H-cyclopenta[a]phenanthrene-17,2'(3'H)-furan], pregn-4-ene-7,21-dicarboxylic acid derivative; Eplerenone EP Impurity B; 11α,12α-epoxy-7α-(methoxycarbonyl)-3-oxo-17α-pregn-4-ene-21,17-carbolactone	C24H30O6	414.50

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1105		Eplerenone Impurity D	C[C@@]12[C@](OC3=O)(CC3)CC[C@@]1([H])[C@]4([H])[C@H](C(O)=O)CC5=CC(CC[C@]5(C)[C@@]4(O6)[C@H]6C2)=O	impurity	DCTI-C-1691	(4aS,4bR,5aR,6aS,7R,9aS,9bR,10R)-4a,6a-dimethyl-2,5'-dioxo-2,4,4a,4',5a,5',6,6a,8,9,9a,9b,10,11-tetradecahydro-3H,3'H-spiro[cyclopenta[1,2]phenanthro[4,4a-b]oxirene-7,2'-furan]-10-carboxylic acid	209253-82-7	Eplerenone 7-Carboxylic Acid , 9,11-Epoxy-17-hydroxy-3-oxo-pregn-4-ene-7,21-dicarboxylic Acid γ-Lactone; Eplerenone EP Impurity D	C23H28O6	400.47
1106		6β-Hydroxyeplerenone	O=C([C@@H]1[C@@H](O)C([C@]([C@]23[C@](C[C@@]([C@](OC4=O)(CC4)CC5)(C)[C@]5([H])[C@]13[H])([H])O2)(C)CC6)=CC6=O)OC	IMPURITY	DCTI-C-2455	methyl (4aS,4bR,5aR,6aS,7R,9aS,9bR,10S,11R)-11-hydroxy-4a,6a-dimethyl-2,5'-dioxo-2,4,4a,4',5a,5',6,6a,8,9,9a,9b,10,11-tetradecahydro-3H,3'H-spiro[cyclopenta[1,2]phenanthro[4,4a-b]oxirene-7,2'-furan]-10-carboxylate	209253-80-5	NA	C24H30O7	430.5
1107		Eplerenone EP Impurity F	O=C(O)CC[C@]1(O)CC[C@]2([H])[C@]1(C)C[C@@]3([H])O[C@]34[C@@]5(C)CCC(C=C5C[C@@H](C(OC)=O)[C@@]24[H])=O	IMPURITY	DCTI-C-2456	3-((4aS,4bR,5aR,6aS,7R,9aS,9bR,10R)-7-hydroxy-10-(methoxycarbonyl)-4a,6a-dimethyl-2-oxo-2,3,4,4a,5a,6,6a,7,8,9,9a,9b,10,11-tetradecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-7-yl) propanoic acid	579484-30-3 (Free Base); 95716-98-6 (Potassium salt)	NA	C24H32O7 (Free base); C24H32O7K (Potassium salt)	432.51 (Free base); 471.61 (Potassium salt)
1108		Eplerenone EP Impurity G	O=C([C@@H]1CC2=CC(CC[C@]2(C)C3CC[C@]4(C)[C@](OC5=O)(CC5)CC[C@@]4([H])[C@]13[H])=O)OC	IMPURITY	DCTI-C-2457	Methyl (7R,8R,10R,13S,14S,17R)-10,13-dimethyl-3,5'-dioxo-1,2,3,4',5',6,7,8,9,10,11,12, 13,14,15,16-hexadecahydro-3'H-spiro[cyclopenta[a]phenanthrene-17,2'-furan]-7-carboxylate	41020-65-9	NA	C24H32O5	400.52
1109	**Ergocalciferol**	Ergocalciferol (Vitamin D2) EP Impurity A	C=C1CC[C@H](O)C/C1=C\C=C2[C@@](CC[C@]3([H])[C@@H](/C=C/[C@H](C)C(C)C)C)([H])[C@]3(C)CCC\2	Impurity	DCTI-C-900	(S,E)-3-(2-((1R,3aS,7aR,E)-1-((2R,5R,E)-5,6-dimethylhept-3-en-2-yl)-7a-methyloctahydro-4H-inden-4-ylidene)ethylidene)-4-methylenecyclohexan-1-ol	51744-66-2	NA	C28H44O	396.66
1110	**Erythromycin**	N-Nitroso-Desmethyl Erythromycin ethyl succinate	CC[C@@H]1[C@@](C)(O)[C@H](O)[C@@H](C)C([C@H](C)C[C@@](C)(O)[C@H](O[C@H]2[C@H](OC(CCC(OCC)=O)=O)[C@@H](N(N=O)C)C[C@@H](C)O2)[C@@H](C)[C@H](O[C@H]3C[C@@](C)(OC)C(O)[C@H](C)O3)[C@@H](C)C(O1)=O)=O	NDSRI	DCTI-C-3784	ethyl ((2S,3R,4S,6R)-2-((3R,4S,5S,6R,7R,9R,11R,12R, 13S,14R)-14-ethyl-7,12,13-trihydroxy-4-(((2R,4R,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-3,5,7,9,11,13-hexamethyl-2,10-dioxooxacyclotetradecan-6-yl)oxy)-6-methyl-4-(methyl(nitroso)amino)tetrahydro-2H-pyran-3-yl) succinate	NA	N-Nitroso-Desmethyl Erythromycin ethyl succinate (mixture of isomers)	C42H72N2O17	877.04

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1111		Erlotinib N-Oxide	COCCOC1=CC2=[N]([O])C=NC(NC3=CC=CC(C#C)=C3)=C2C=C1OCCOC	Impurity	DCTI-C-114	4-((3-ethynylphenyl)amino)-6,7-bis(2-methoxyethoxy)quinazoline 1-oxide	NA	NA	C22H23N3O5	409.44
1112		Erlotinib EP Impurity I	ClCCOC1=CC2=NC=NC(Cl)=C2C=C1OCCOC	impurity	DCTI-C-2031	4-chloro-7-(2-chloroethoxy)-6-(2-methoxyethoxy)quinazoline	183322-20-5	Erlotinib impurity I.	C13H14Cl2N2O3	317.17
1113		Erlotinib Impurity G (EP)	COCCOC1=CC2=NC=NC(Cl)=C2C=C1OCCCl	impurity	DCTI-C-2032	4-chloro-6-(2-chloroethoxy)-7-(2-methoxyethoxy)quinazoline	183322-19-2	Erlotinib EP Impurity G; Erlotinib Impurity G.	C13H14Cl2N2O3	317.17
1114		Erlotinib acetate	C#CC1=CC=CC(NC2=NC=NC(C=C3OCCOC(C)=O)=C2C=C3OCCOC)=C1	Impurity	DCTI-C-1679	2-((4-((3-ethynylphenyl)amino)-6-(2-methoxyethoxy)quinazolin-7-yl)oxy)ethyl acetate	183320-24-3	NA	C23H23N3O5	421.45
1115		Erlotinib Related Compound A	CC(O)(C)C#CC1=CC=CC(NC2=C3C=C(OCCOC)C(OCCOC)=CC3=NC=N2)=C1	Impurity	DCTI-C-1680	4-(3-((6,7-bis(2-methoxyethoxy)quinazolin-4-yl)amino)phenyl)-2-methylbut-3-yn-2-ol	299912-60-0	NA	C25H29N3O5	451.52
1116		6,7-bis(2-methoxyethoxy)quinazolin-4-amine	NC1=C(C(C=C2OCCOC)=NC=N1)C=C2OCCOC	Impurity	DCTI-C-115	6,7-bis(2-methoxyethoxy)quinazolin-4-amine	1417161-98-8	LS00240	C14H19N3O4	293.32

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1117	Erlotinib	2-((4-amino-7-(2-methoxyethoxy)quinazolin-6-yl)oxy)ethan-1-ol	OCCOC1=CC2=C(N)N=CN=C2C=C1OCCOC	Impurity	DCTI-C-126	2-((4-amino-7-(2-methoxyethoxy)quinazolin-6-yl)oxy)ethan-1-ol	1839513-98-2	NA	C13H17N3O4	279.3
1118		Propyl 2-amino-4,5-bis(2-methoxy ethoxy)benzoate hydrochloride (ERL Propyl ester)	O=C(OCCC)C1=CC(OCCOC)=C(OCCOC)C=C1N.Cl	Impurity	DCTI-C-257	propyl 2-amino-4,5-bis(2-methoxyethoxy)benzoate hydrochloride	NA	Erlotinib Impurity-47	C16H26ClNO6 (HCl Salt) C16H25NO6 (Free base)	363.84 (HCl Salt) 327.38 (Free base)
1119		Ethyl 3,4-bis(2-methoxyethoxy)-5-nitrobenzoate (m-ERL Nitro compound)	O=C(OCC)C1=CC(OCCOC)=C(OCCOC)C([N+]([O-])=O)=C1	Impurity	DCTI-C-258	ethyl 3,4-bis(2-methoxyethoxy)-5-nitrobenzoate	NA	Erlotinib Impurity 33	C15H21NO8	343.33
1120		Ethyl 3,4-bis(2-methoxyethoxy)-2-nitrobenzoate (o-ERL Nitro compound)	O=C(OCC)C1=C([N+]([O-])=O)C(OCCOC)=C(OCCOC)C=C1	Impurity	DCTI-C-260	ethyl 3,4-bis(2-methoxyethoxy)-2-nitrobenzoate	NA	Erlotinib impurity-49	C15H21NO8	343.33
1121		Ethyl 2-amino-3,4-bis(2-methoxy ethoxy)benzoate hydrochloride (o-ERL Ethyl ester)	O=C(OCC)C1=C(N)C(OCCOC)=C(OCCOC)C=C1.Cl	Impurity	DCTI-C-261	ethyl 2-amino-3,4-bis(2-methoxyethoxy)benzoate hydrochloride	NA	Erlotinib Impurity 15	C15H24ClNO6 (HCl Salt) C15H23NO6 (Free base)	349.81 (HCl Salt) 313.35 (Free base)
1122		7,8-bis(2-methoxyethoxy) quinazolin-4(3H)-one	O=C(NC=N1)C2=C1C(OCCOC)=C(OCCOC)C=C2	Impurity	DCTI-C-574	7,8-bis(2-methoxyethoxy)quinazolin-4(3H)-one	NA	NA	C14H18N2O5	294.31
1123		Ethyl 2-amino-4,5-bis(2-methoxyethoxy)benzoate hydrochloride	COCCOC1=C(OCCOC)C=C(C(OCC)=O)C=C1N.Cl	Impurity	DCTI-C-621	Ethyl 2-amino-4,5-bis(2-methoxyethoxy)benzoate hydrochloride	183322-17-0	NA	C15H24ClNO6 (HCl Salt); C15H23NO6 (Free base)	349.81 (HCl Salt); 313.35 (Free base)
1124		Methyl 2-amino-4,5-bis(2-methoxyethoxy) benzoate hydrochloride	COC(C1=CC(OCCOC)=C(OCCOC)C=C1N)=O.Cl	Impurity	DCTI-C-622	Methyl 2-amino-4,5-bis(2-methoxyethoxy) benzoate hydrochloride	476168-17-9 (Free base)	NA	C14H22ClNO6 (HCl Salt); C14H21NO6 (Free base)	335.78 (HCl Salt); 299.32 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1125		Desmethyl erlotinib acetate	COCCOC1=CC(N=CN=C2NC3=CC(C#C)=CC=C3)=C2C=C1OCCOC(C)=O	impurity	DCTI-C-1063	2-((4-((3-ethynylphenyl)amino)-7-(2-methoxyethoxy)quinazolin-6-yl)oxy)ethyl acetate	183320-15-2	Erlotinib impurity-V	C23H23N3O5	421.45
1126	Escitalopram	Escitalopram Acid Analog	FC1=CC=C(C2(CCCN(C)C)OCC3=CC(C(O)=O)=CC=C23)C=C1	impurity	DCTI-C-2030	1-(3-(dimethylamino)propyl)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carboxylic acid	440121-09-5	Citalopram Carboxylic Acid	C20H22FNO3	343.4
1127		Escitalopram Olefinic impurity	N#CC1=CC=C(/C(C2=CC=C(F)C=C2)=C\CCN(C)C)C(CO)=C1	IMPURITY	DCTI-C-2601	(Z)-4-(4-(dimethylamino)-1-(4-fluorophenyl)but-1-en-1-yl)-3-(hydroxymethyl)benzonitrile	1370643-22-3	Escitalopram EP Impurity I	C20H21FN2O	324.4
1128		NITROSO DESMETHYL ESCITALOPRAM	N#CC1=CC2=C([C@@](C3=CC=C(F)C=C3)(CCCN(N=O)C)OC2)C=C1	NDSRI	DCTI-C-3662	(S)-N-(3-(5-cyano-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-1-yl)propyl)-N-methylnitrous amide	NA	NA	C19H18FN3O2	339.37
1129		Escitalopram oxalate Related compound-A	O=C(C1=CC=C(C=C1)O[C@H](C(O)=O)[C@@H](C(O)=O)OC(C2=CC=C(C=C2)C)=O.CN(C)CCC[C@@](C3=C(C=C(C=C3)C#N)CO)(C4=CC=C(C=C4)F)O.CN(C)CCC[C@@](C5=C(C=C(C=C5)C#N)CO)(C6=CC=C(C=C6)F)O	Impurity	DCTI-C-2480	(S)-4-(4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonitrile hemi(+)-di-toluoyltarte	na	Escitalopram usp Related compound-A	C60H64F2N4O12(salt):C20H23FN2O2(free base)	1071.18(salt): 342.41(free base)
1130		Estradiol Sulphate	C[C@@]12[C@](CC[C@@H]2O)([H])[C@]([C@]3([H])CC1)([H])CCC4=C3C=CC(OS(=O)(O)=O)=C4	Metabolite	DCTI-C-2970	(8R,9S,13S,14S)-17-hydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-3-yl hydrogen sulfate	481-96-9	NA	C18H24O5S	352.44

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1131	Estradiol	2-Amino Estrone	OC(C(N)=C1)=CC(CC[C@@]2([H])[C@]3([H])CC4)=C1[C@@]2([H])CC[C@]3(C)C4=O	Impurity	DCTI-C-3176	(8R,9S,13S,14S)-2-amino-3-hydroxy-13-methyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	14984-43-1	NA	C18H23NO2	285.39
1132		16-Ketoestradiol	OC(C=C1)=CC(CC[C@@]2([H])[C@]3([H])C4)=C1[C@@]2([H])CC[C@]3(C)C(O)C4=O	Metabolite	DCTI-C-3205	(8R,9S,13S,14S)-3,17-dihydroxy-13-methyl-6,7,8,9,11,12,13,14,15,17-decahydro-16H-cyclopenta[a]phenanthren-16-one	566-75-6	16-Oxoestradiol, 16-Keto-17-estradiol	C18H22O3	286.37
1133		16-Hydroxy Estrone	OC(C=C1)=CC(CC[C@@]2([H])[C@]3([H])CC4O)=C1[C@@]2([H])CC[C@]3(C)C4=O	Metabolite	DCTI-C-3206	(8R,9S,13S,14S)-3,16-dihydroxy-13-methyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	18186-49-7	NA	C18H22O3	286.37
1134		6Alpha-Hydroxyestradiol	OC(C=C1)=CC2=C1[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])C[C@@H]2O	Impurity	DCTI-C-3573	(6S,8R,9S,13S,14S,17S)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,6,17-triol	1229-24-9	NA	C18H24O3	288.39
1135		6Beta-Hydroxyestradiol	OC(C=C1)=CC2=C1[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])C[C@H]2O	Impurity	DCTI-C-3572	(6R,8R,9S,13S,14S,17S)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,6,17-triol	07-03-3583	6β-Hydroxyestradiol	C18H24O3	288.39
1136		Estradiol Related Compound C	OC(C=C1)=CC2=C1[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])CC2=O	Impurity	DCTI-C-3587	(8R,9S,13S,14S,17S)-3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a] phenanthren-6-one	571-92-6	1,3,5(10)-Estratrien-3,17β-diol-6-one; Estradiol USP RC C; 6-Ketoestradiol; 6-Keto 17beta-Estradiol	C18H22O3	286.37
1137		6-Dehidroestradiol	OC(C=C1)=CC2=C1[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])C=C2	Impurity	DCTI-C-3683	(8R,9S,13S,14S,17S)-13-methyl-8,9,12,13,14,15,16,17-octahydro-11H-cyclopenta[a]phenanthrene-3,17-diol	7291-41-0	6,7-Dehydro Estradiol; Estradiol USP RC B; Estradiol related compound B	C18H22O2	270.37
1138		4-Methyl Estradiol	OC(C=C1)=C(C)C2=C1[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])CC2	Impurity	DCTI-C-3706	(8R,9S,13S,14S,17S)-4,13-dimethyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	6171-48-8	NA	C19H26O2	286.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1139	Estrone	2-Hydroxy Estrone	OC(C(O)=C1)=CC(CC[C@@]2([H])[C@]3([H])CC4)=C1[C@@]2([H])CC[C@]3(C)C4=O	Metabolite	DCTI-C-3160	(8R,9S,13S,14S)-2,3-dihydroxy-13-methyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	362-06-1	Estra-1,3,5(10)-trien-17-one,2,3-dihydroxy-	C18H22O3	286.37
1140		2-Nitro Estrone	OC(C([N+]([O-])=O)=C1)=CC(CC[C@@]2([H])[C@]3([H])CC4)=C1[C@@]2([H])CC[C@]3(C)C4=O	IMPURITY	DCTI-C-3272	(8R,9S,13S,14S)-3-hydroxy-13-methyl-2-nitro-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	5976-73-8	NA	C18H21NO4	315.37
1141	**Ethacizine**	Mono-Desethyl Ethacizine	CCOC(NC(C=C1)=CC2=C1SC(C=CC=C3)=C3N2C(CCNCC)=O)=O	impurity	DCTI-C-1013	ethyl (10-(3-(ethylamino)propanoyl)-10H-phenothiazin-2-yl)carbamate	122144-01-8	NA	C20H23N3O3S	385.48
1142	**Ether derivatives**	(((4-methylpent-1-yn-3-yl)oxy)methyl)benzene	CC(C(C#C)OCC1=CC=CC=C1)C	Impurity	DCTI-C-529	(((4-methylpent-1-yn-3-yl)oxy)methyl)benzene	1352282-27-9	NA	C13H16O	188.27
1143		Ethinyl Estradiol EP Impurity E	OC1=CC=C2C([C@](O)([H])C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4(C#C)O)=C1	Impurity	DCTI-C-1443	(6S,8R,9S,13S,14S,17R)-17-ethynyl-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,6,17-triol	NA	6α-Hydroxy Ethynyl Estradiol, 6-hydroxy Ethynyl Estradiol, Ethinyl Estradiol Impurity E	C20H24O3	312.41
1144		Delta-8(9)-ethinyl Estradiol	OC1=CC=C2C(CCC3=C2CCC4(C)[C@@]3([H])CC[C@]4(C#C)O)=C1	impurity	DCTI-C-1899	(14S,17R)-17-ethynyl-13-methyl-7,11,12,13,14,15,16,17-octahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	NA	NA	C20H22O2	294.16

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1145		D8,9 Dehydro Estrone	O=C1CC[C@@]([C@]1(C)CC2)([H])C3=C2C4=CC=C(O)C=C4CC3	impurity	DCTI-C-1844	(13S,14S)-3-hydroxy-13-methyl-6,7,11,12,13,14,15,16-octahydro-17H-cyclopenta[a]phenanthren-17-one	NA	NA	C18H20O2	268.35
1146		1-Hydroxy-4-methylestra-1,3,5(10)-trien-17-one	O=C1CC[C@@]2([H])[C@]3([H])CCC4=C(C)C=CC(O)=C4[C@@]3([H])CC[C@@]21C	Impurity	DCTI-C-1788	(8R,9S,13S,14S)-1-hydroxy-4,13-dimethyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	NA	NA	C19H24O2	284.4
1147		1-Methyl Estrone	O=C1CC[C@@]2([H])[C@]3([H])CCC4=CC(O)=CC(C)=C4[C@@]3([H])CC[C@@]21C	Impurity	DCTI-C-1789	(8R,9S,13S,14S)-3-hydroxy-1,13-dimethyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	NA	Estrone 1-Methyl Impurity, 1,3,5(10)-Estratrien-1-methyl-3-ol-17-one, Estra-1,3,5(10)-trien-17-one,3-hydroxy-1-methyl-(7ci,8ci,9ci	C19H24O2	284.4
1148		17 Beta Delta 8,9 Dehydro Estradiol	OC1=CC=C2C(CCC3=C2CC[C@@]4(C)[C@@]3([H])CC[C@@H]4O)=C1	impurity	DCTI-C-1875	(13S,14S,17S)-13-methyl-7,11,12,13,14,15,16,17-octahydro-6H-cyclopenta [a]phenanthrene-3,17-diol	NA	Estradiol impurity 2	C18H22O2	270.37
1149		4-methyl estrone	OC(C=C1)=C(C)C(CC[C@@]2([H])[C@]3([H])CC4)=C1[C@@]2([H])CC[C@]3(C)C4=O	Impurity	DCTI-C-1790	(8R,9S,13S,14S)-3-hydroxy-4,13-dimethyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	NA	NA	C19H24O2	284.4
1150		Ethinyl Estradiol EP Impurity F	OC1=CC=C2C([C@]([H])(O)C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4(C#C)O)=C1	Impurity	DCTI-C-1444	(6R,8R,9S,13S,14S,17R)-17-ethynyl-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,6,17-triol	NA	NA	C20H24O3	312.41

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1151	Ethinylestradiol	Ethinyl Estradiol Impurity G	OC1=CC=C2C(C(C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4(C#C)O)=O)=C1	Impurity	DCTI-C-1442	(8R,9S,13S,14S,17R)-17-ethynyl-3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-6-one	NA	NA	C20H22O3	310.39
1152		Ethinyl estradiol Impurity H	C#C[C@]1(O)C(C[C@@]2([H])[C@]3([H])CCC4=C(C=CC(O)=C4)[C@@]3([H])CC[C@]12C)=O	Impurity	DCTI-C-1439	(8R,9S,13S,14S,17R)-17-ethynyl-3,17-dihydroxy-13-methyl-6,7,8,9,11,12,13,14,15,17-decahydro-16H-cyclopenta[a]phenanthren-16-one	NA	Ethinylestradiol EP Impurity H; 16-Oxo-ethinylestradiol	C20H22O3	310.39
1153		Ethinyl estradiol Impurity I	OC1=CC=C2C(C=C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4(C#C)O)=C1	Impurity	DCTI-C-1440	(8R,9S,13S,14S,17R)-17-ethynyl-13-methyl-8,9,12,13,14,15,16,17-octahydro-11H-cyclopenta[a]phenanthrene-3,17-diol	NA	NA	C20H22O2	294.39
1154		Ethinylestradiol Impurity J	O[C@@]1(C#C)CC[C@@]2([H])[C@]3([H])CCC4=CC(O)=CC(C)=C4[C@@]3([H])CC[C@@]21C	Impurity	DCTI-C-1437	(8R,9S,13S,14S,17R)-17-ethynyl-1,13-dimethyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	NA	1-methyl-Ethinyl Estradiol, EE-J	C21H26O2	310.44
1155		Ethinyl Estradiol Impurity-K	OC(C=C1)=C(C)C2=C1[C@@]3([H])CC[C@]4(C)[C@@](C#C)(O)CC[C@@]4([H])[C@]3([H])CC2	Impurity	DCTI-C-1438	(8R,9S,13S,14S,17R)-17-ethynyl-4,13-dimethyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	NA	4-Methyl Ethynyl Estradiol, 4-Methyl-17-ethynyl estradiol, Ethinylestradiol EP Impurity K	C21H26O2	310.44

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1156		Ethinylestradiol Impurity Dimer	OC(C=C1)=C(OC(C=C2)=CC3=C2[C@@]4([H])CC[C@]5(C)[C@@](C#C)(O)CC[C@@]5([H])[C@]4([H])CC3)C6=C1[C@@]7([H])CC[C@]8(C)[C@@](C#C)(O)CC[C@@]8([H])[C@]7([H])CC6.OC(C(OC(C=C9)=CC%10=C9[C@@]%11([H])CC[C@]%12(C)[C@@](C#C)(O)CC[C@@]%12([H])[C@]%11([H])CC%10)=C%13)=CC%14=C%13[C@@]%15([H])CC[C@]%16(C)[C@@](C#C)(O)CC[C@@]%16([H])[C@]%15([H])CC%14	Impurity	DCTI-C-1436	(8R,9S,13S,14S,17R)-17-ethynyl-4-(((8R,9S,13S,14S,17R)-17-ethynyl-17-hydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-3-yl)oxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol & (8R,9S,13S,14S,17R)-17-ethynyl-2-(((8R,9S,13S,14S,17R)-17-ethynyl-17-hydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-3-yl)oxy)-	NA	Ethinyl Estradiol Dimer Impurity 1 & Ethinyl Estradiol Dimer Impurity 2	C40H46O4 + C40H46O4	590.80 + 590.80
1157		Ethinylestradiol Impurity Dimer-1	OC(C=C1)=C(OC(C=C2)=CC3=C2[C@@]4([H])CC[C@]5(C)[C@@](C#C)(O)CC[C@@]5([H])[C@]4([H])CC3)C6=C1[C@@]7([H])CC[C@]8(C)[C@@](C#C)(O)CC[C@@]8([H])[C@]7([H])CC6	Impurity	DCTI-C-1661	(8R,9S,13S,14S,17R)-17-ethynyl-4-(((8R,9S,13S,14S,17R)-17-ethynyl-17-hydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-3-yl)oxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	NA	NA	C40H46O4	590.8
1158		Ethinylestradiol Impurity Dimer-2	OC(C(OC(C=C1)=CC2=C1[C@@]3([H])CC[C@]4(C)[C@@](C#C)(O)CC[C@@]4([H])[C@]3([H])CC2)=C5)=CC6=C5[C@@]7([H])CC[C@]8(C)[C@@](C#C)(O)CC[C@@]8([H])[C@]7([H])CC6	Impurity	DCTI-C-1662	(8R,9S,13S,14S,17R)-17-ethynyl-2-(((8R,9S,13S,14S,17R)-17-ethynyl-17-hydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-3-yl)oxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	NA	NA	C40H46O4	590.8
1159		Ethinyl Estradiol Impurity M	OC(C(C)=C1)=CC2=C1[C@@]3([H])CC[C@]4(C)[C@@](C#C)(O)CC[C@@]4([H])[C@]3([H])CC2	Impurity	DCTI-C-1441	(8R,9S,13S,14S,17R)-17-ethynyl-2,13-dimethyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	NA	NA	C21H26O2	310.44

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1160		Ethinyl estradiol Impurity	C[C@@]12[C@](CC[C@]2(C#C)O)([H])[C@]3([H])CCC4=C(C)C=CC(O)=C4[C@@]3([H])CC1	Impurity	DCTI-C-1663	(8S,9S,13S,14S,17R)-17-ethynyl-4,13-dimethyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-1,17-diol	NA	NA	C21H26O2	310.44
1161		1H-imidazole, 1-[(1R)-1-phenylethyl]-	C[C@@H](N1C=CN=C1)C2=CC=CC=C2	Impurity	DCTI-C-759	(R)-1-(1-phenylethyl)-1H-imidazole	844658-92-0	NA	C11H12N2	172.23
1162		(R)-ethyl N-formyl-N-(1-phenylethyl) glycine	O=CN(CC(OCC)=O)[C@H](C)C1=CC=CC=C1	Impurity	DCTI-C-760	ethyl (R)-N-formyl-N-(1-phenylethyl)glycinate	66514-85-0	NA	C13H17NO3	235.28
1163		Ethyl (R)-[(1-Phenylethyl)amino] acetate	CCOC(CN[C@H](C)C1=CC=CC=C1)=O	Impurity	DCTI-C-761	ethyl (R)-(1-phenylethyl)glycinate	66512-37-6	NA	C12H17NO2	207.27
1164		Etomidate intermediate Nitroso impurity	CC(N(N=O)CC(OCC)=O)C1=CC=CC=C1	NDSRI	DCTI-C-1476	ethyl N-nitroso-N-(1-phenylethyl)glycinate	NA	NA	C12H16N2O3	236.27
1165		Ethyl (R)-3-(1-phenylethyl)-2-thioxo-23-dihydro-1H-imidazole-4-carboxylate	C[C@H](C1=CC=CC=C1)N2C(C(OCC)=O)=CN=C2S	Impurity	DCTI-C-762	ethyl (R)-2-mercapto-1-(1-phenylethyl)-1H-imidazole-5-carboxylate	NA	2-Mercapto Etomidate; Etomidate EP Impurity D	C14H16N2O2S	276.35
1166		Ethyl N-formyl-3-oxo-N-(1-phenylethyl)alaninate	CC(N(C(C(OCC)=O)C=O)C=O)C1=CC=CC=C1	Impurity	DCTI-C-763	ethyl 3-oxo-2-(N-(1-phenylethyl)formamido)propanoate	83763-26-2	NA	C14H17NO4	263.29

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1167		2-methyl estrone	OC(C=C1CC[C@@]2([H])[C@]3([H])CC4)=C(C)C=C1[C@@]2([H])CC[C@]3(C)C4=O	IMPURITY	DCTI-C-3407	(8R,9S,13S,14S)-3-hydroxy-2,13-dimethyl-6,7,8,9,11,12,13,14,15,16-decahydro-17H-cyclopenta[a]phenanthren-17-one	na	na	C19H24O2	284.4
1168	**Etonogestrel**	6β-Hydroperoxi Etanogestrel	O=C1CC[C@@]2([H])C([C@H](OO[H])C[C@](C(CC[C@]3(C#C)O)[C@]3(CC)C4)([H])C2C4=C)=C1	Impurity	DCTI-C-036	(6R,8S,10R,13S,17R)-13-ethyl-17-ethynyl-6-hydroperoxy-17-hydroxy-11-methylene-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C22H28O4	356.46
1169		6α-hydroxyperoxide etonogestrol	O=C(C=C1[C@@H](OO[H])C[C@@]2([H])[C@]3([H])CC[C@@](O)(C#C)[C@@]3(CC)C4)CC[C@]1([H])[C@@]2([H])C4=C	Impurity	DCTI-C-2631	(6S,8S,9S,10R,13S,14S,17R)-13-ethyl-17-ethynyl-6-hydroperoxy-17-hydroxy-11-methylene-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C22H28O4	356.46
1170	**Etoposide**	Lignan P Phosphate	O=C1[C@]2([H])[C@H](C3=CC(OC)=C(C(OC)=C3)OP(O)(O)=O)C4=CC(OCO5)=C5C=C4[C@H]([C@@]2([H])CO1)O[C@@H]6O[C@@](CO)([H])[C@](O)([H])[C@@H]([C@H]6O)O	Impurity	DCTI-C-3526	2,6-dimethoxy-4-((5R,5aR,8aR,9S)-6-oxo-9-(((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-5,5a,6,8,8a,9-hexahydrofuro[3',4':6,7]naphtho[2,3-d][1,3]dioxol-5-yl)phenyl dihydrogen phosphate	NA	NA	C27H31O16P	642.5
1171	**Etravirine**	Etravirine Butanamide impurity	BrC1=C(N(C)CCCC(N)=O)N=C(NC2=CC=C(C#N)C=C2)N=C1OC3=C(C)C=C(C#N)C=C3C	Impurity	DCTI-C-3309	4-((5-bromo-6-(4-cyano-2,6-dimethylphenoxy)-2-((4-cyanophenyl)amino)pyrimidin-4-yl)(methyl)amino)butanamide	2240161-92-4	Etravirine impurity 16	C25H24BrN7O2	534.42
1172		Exemestane Diol Impurity	O=C1C=C[C@@]2(C)C(C(C[C@@]3([H])[C@]4([H])CC[C@@](C(O)C)(O)[C@@]4(C)CC[C@]23[H])=C)=C1	Impurity	DCTI-C-3118	(8R,9S,10R,13S,14S,17R)-17-hydroxy-17-(1-hydroxyethyl)-10,13-dimethyl-6-methylene-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	1204325-02-9	571189-51-0	C22H30O3	342.48

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1173	Exemestane	Exemestane 6alpha-epoxide	C[C@]12C([C@]3(CO3)C[C@]4([H])[C@]1([H])CC[C@]5([C@@]4([H])CCC5=O)C)=CC(C=C2)=O	Impurity	DCTI-C-3412	(6S,8R,9S,10R,13S,14S)-10,13-dimethyl-7,8,9,10,11,12,13,14,15,16-decahydrospiro [cyclopenta[a]phenanthrene-6,2'-oxirane]-3,17-dione	152764-24-4	6α-Spiro[androsta-1,4-diene-6,2′-oxiran]-3,17-dione	C20H24O3	312.41
1174		Exemestane 6beta-epoxide	C[C@]12C([C@@]3(CO3)C[C@]4([H])[C@]1([H])CC[C@]5([C@@]4([H])CCC5=O)C)=CC(C=C2)=O	Impurity	DCTI-C-3411	(6R,8R,9S,10R,13S,14S)-10,13-dimethyl-7,8,9,10,11,12,13,14,15,16-decahydrospiro [cyclopenta[a]phenanthrene-6,2'-oxirane]-3,17-dione	152764-31-3	6β-Spiro[androsta-1,4-diene-6,2′-oxiran]-3,17-dione	C20H24O3	312.41
1175		Delta-1,6-methylene-17-hydroxyprogesterone	C[C@@]12[C@](CC[C@]2(O)C(C)=O)([H])[C@@]3([H])[C@@](CC1)([H])[C@@]4(C(C(C3)=C)=CC(C=C4)=O)C	Impurity	DCTI-C-3748	(8R,9S,10R,13S,14S,17R)-17-acetyl-17-hydroxy-10,13-dimethyl-6-methylene-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	1204325-01-8	NA	C22H28O3	340.46
1176	**Ezetimibe**	Ezetimibe Ketone	O=C1N(C2=CC=C(F)C=C2)[C@H](C3=CC=C(O)C=C3)[C@H]1CCC(C4=CC=C(F)C=C4)=O	Impurity	DCTI-C-706	(3R,4S)-1-(4-fluorophenyl)-3-(3-(4-fluorophenyl)-3-oxopropyl)-4-(4-hydroxyphenyl)azetidin-2-one	191330-56-0	EZM-K	C24H19F2NO3	407.42
1177	**Ezetimibe**	Ezetimibe Diol impurity	OC(C=C1)=CC=C1[C@@H]2O[C@H](C3=CC=C(F)C=C3)CC[C@H]2CO	Impurity	DCTI-C-3659	4-((2R,3S,6S)-6-(4-fluorophenyl)-3-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)phenol	2742940-92-5	NA	C18H19FO3	302.35
1178		Vinyl cinnamate	O=C(OC=C)/C=C/C1=CC=CC=C1	Impurity	DCTI-C-3148	Vinyl cinnamate	17719-70-9	Cinnamic acid vinyl ester	C11H10O2	174.2
1179		1-(3,5-di-tert-butyl-4-hydroxyphenyl)ethan-1-one	CC(C1=CC(C(C)(C)C)=C(O)C(C(C)(C)C)=C1)=O	Impurity	DCTI-C-3149	1-(3,5-di-tert-butyl-4-hydroxyphenyl)ethan-1-one	14035-33-7	NA	C16H24O2	248.37

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1180	E &L Standards-Rubber oligomers Impurities	C13H24 Rubber Oligomer	CC(C1C(C)(C)CC(C)(C)CC1)=C	Impurity	DCTI-C-3199	1,1,5,5-tetramethyl-2-(prop-1-en-2-yl)cyclohexane	63251-38-7	Rubber Oligomer 1	C13H24	180.34
1181		Rubber Oligomer-8	O=C(C1=CCC(C)(C)CC1(C)C)OC	Impurity	DCTI-C-3147	Methyl 4,4,6,6-tetramethylcyclohex-1-ene-1-carboxylate	2234308-25-7	NA	C12H20O2	196.29
1182		3-(3,5-di-tert-butyl-4-hydroxyphenyl)propanoic acid	OC(CCC1=CC(C(C)(C)C)=C(O)C(C(C)(C)C)=C1)=O	IMPURITY	DCTI-C-3150	3-(3,5-di-tert-butyl-4-hydroxyphenyl)propanoic acid	20170-32-5	NA	C17H26O3	278.39
1183		7,9-di-tert-butyl-1-oxaspiro[4.5]deca-6,9-diene-2,8-dione	O=C1OC2(C=C(C(C)(C)C)C(C(C)(C)C)=C2)=OCC1	IMPURITY	DCTI-C-3151	7,9-di-tert-butyl-1-oxaspiro[4.5]deca-6,9-diene-2,8-dione	82304-66-3	NA	C17H24O3	276.38
1184		Rubber oligomer 9	CC1(C)CC(C)(C)C(C)=O)=CC1	IMPURITY	DCTI-C-3215	1-(4,4,6,6-tetramethylcyclohex-1-en-1-yl)ethan-1-one	NA	NA	C12H20O	180.29
1185		(2E,4E)-2,4-Dodecadienoic acid	CCCCCCC/C=C/C=C/C(O)=O	Impurity	DCTI-C-3335	(2E,4E)-2,4-Dodecadienoic acid	24738-48-5	NA	C12H20O2	196.29
1186		4-t-Butyl-2-(1-methyl-2-nitroethyl)cyclohexanone	CC(C(C(CC1)=O)CC1C(C)(C)C)C[N+]([O-])=O	Impurity	DCTI-C-3334	4-(tert-butyl)-2-(1-nitropropan-2-yl)cyclohexan-1-one	1310686-07-7	NA	C13H23NO3	241.33
1187		Rubber Oligomer 6	C=C(CBr)C1C(C)(C)CC(C)(C)CC1	IMPURITY	DCTI-C-3214	2-(3-bromoprop-1-en-2-yl)-1,1,5,5-tetramethylcyclohexane	2514955-51-4	NA	C13H23Br	259.23

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1188		Rubber Oligomer 10	C=C(CO)C1C(C)(C)CC(C)(C)CC1	IMPURITY	DCTI-C-3216	2-(2,2,4,4-tetramethylcyclohexyl)prop-2-en-1-ol	NA	NA	C13H24O	196.33
1189		5,8,11,14,17,20-Hexaoxatetracosa-2,22-diyne-1,24-diol	OCC#CCOCCOCCOCCOCCOCCOCC#CCO	E&L' s	DCTI-C-3918	5,8,11,14,17,20-hexaoxatetracosa-2,22-diyne-1,24-diol	185378-84-1	NA	C18H30O8	374.43
1190		3,6-dichloropyrazine-2-carbonitrile	N#CC1=NC(Cl)=CN=C1Cl	impurity	DCTI-C-958	3,6-dichloropyrazine-2-carbonitrile	356783-16-9	2-Pyrazinecarbonitrile, 3,6-dichloro-	C5HCl2N3	173.98
1191		3-hydroxypyrazine-2-carboxamide	O=C(N)C1=NC=CN=C1O	impurity	DCTI-C-994	3-hydroxypyrazine-2-carboxamide	NA	NA	C5H5N3O2	139.11
1192		Favipiravir fluoro Ribofuranose	FC1=CN([C@H](O[C@@H]2COP(OC3=CC=CC=C3)(N[C@H](C(OC(C)C)=O)C)=O)[C@@](F)(C)[C@@H]2O)C(C(C(N)=O)=N1)=O	Impurity	DCTI-C-1712	isopropyl ((((2R,3R,4R,5R)-5-(3-carbamoyl-5-fluoro-2-oxopyrazin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C23H29F2N4O9P	574.47
1193		Favipiravir Ribofuranose	FC1=CN([C@@H]([C@H]2O)O[C@H](COP(OC3=CC=CC=C3)(N[C@@H](C)C(OCC(CC)CC)=O)=O)[C@@H]2O)C(C(C(N)=O)=N1)=O	Impurity	DCTI-C-1713	2-ethylbutyl ((((2R,3R,4S,5R)-5-(3-carbamoyl-5-fluoro-2-oxopyrazin-1(2H)-yl)-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C25H34FN4O10P	600.54
1194	**Favipiravir**	Favipiravir Ribofuranose metabolite	FC1=CN([C@H]([C@H]2O)O[C@H](CO)[C@@H]2O)C(C(C(N)=O)=N1)=O	Impurity	DCTI-C-1714	4-((2S,3S,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-6-fluoro-3-oxo-3,4-dihydropyrazine-2-carboxamide	NA	NA	C10H12FN3O6	289.22

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1195		6-bromo-3-hydroxypyrazine-2-carboxamide	O=C(N)C1=NC(Br)=CN=C1O	impurity	DCTI-C-995	6-bromo-3-hydroxypyrazine-2-carboxamide	NA	NA	C5H4BrN3O2	218.01
1196		6-Fluoropyrazine-2-carbonitrile	FC1=CN=CC(C#N)=N1	Impurity	DCTI-C-1477	6-Fluoropyrazine-2-carbonitrile	356783-46-5	2-Pyrazinecarbonitrile, 6-fluoro-, Pyrazinecarbonitrile, 6-fluoro-	C5H2FN3	123
1197		6-Chloro-3-hydroxypyrazine-2-carboxamide	O=C(N)C1=NC(Cl)=CN=C1O	impurity	DCTI-C-996	6-chloro-3-hydroxypyrazine-2-carboxamide	NA	NA	C5H4ClN3O2	173.56
1198		6-fluoro-3-hydroxypyrazine-2-carbonitrile	N#CC1=NC(F)=CN=C1O	Impurity	DCTI-C-3383	6-fluoro-3-hydroxypyrazine-2-carbonitrile	na	na	C5H2FN3O	139.09
1199	**Febuxostat**	FBX Descarboxy	ClC1=CN=CC(C#N)=N1	IMPURITY	DCTI-C-2768	2-isobutoxy-5-(4-methylthiazol-2-yl)benzonitrile	1335202-60-2	Febuxostat Impurity 14, Deacarboxyl Febuxostat, Febuxostat Deacarboxyl Impurity, Febuxostat Descarboxy Impurity	C15H16N2OS	272.37
1200	**Felbamate**	Felbamate Dimer	NC(OCC(COC(OCC(C1=CC=CC=C1)COC(N)=O)=O)C2=CC=CC=C2)=O	Impurity	DCTI-C-3374	(carbonylbis(oxy))bis(2-phenylpropane-3,1-diyl) dicarbamate	1796927-91-7	3,3'-Carbonylbis(oxy)bis(2-phenyl propane-3,1-diyl) dicarbamate; (Carbonylbis(oxy))bis(2-phenyl propane-3,1-diyl) dicarbamate	C21H24N2O7	416.43
1201		N-Aminocarbonyl Felbamate	NC(OCC(COC(NC(N)=O)=O)C1=CC=CC=C1)=O	Impurity	DCTI-C-3376	3-[(Aminocarbonyl)oxy]-2-phenylpropyl N-(aminocarbonyl)carbamate	1797130-34-7	N-AMNCRBNYL FLBMT	C12H15N3O5	281.27
1202		Dehydro Felodipine	CC1=NC(C)=C(C(OCC)=O)C(C2=C(Cl)C(Cl)=CC=C2)=C1C(OC)=O	impurity	DCTI-C-2033	3-ethyl 5-methyl 4-(2,3-dichlorophenyl)-2,6-dimethylpyridine-3,5-dicarboxylate	96382-71-7	3,5-Pyridinedicarboxylic acid, 4-(2,3-dichlorophenyl)-2,6-dimethyl-, ethyl methyl ester (9Cl); 3-Ethyl 5-methyl 4-(2,3-dichlorophenyl)-2,6-dimethylpyridine-3,5-dicarboxylate; H 152/37	C18H17Cl2NO4	382.24

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1203	**Felodipine**	Felodipine EP Impurity C	CC1=C(C(OCC)=O)C(C2=C(Cl)C(Cl)=CC=C2)C(C(OCC)=O)=C(C)N1	impurity	DCTI-C-2034	diethyl 4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate	79925-38-5	3,5-Pyridinedicarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-, diethyl ester (9CI);3,5-Diethyl 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylate Nemadipine B	C19H21Cl2NO4	398.28
1204		Felodipine 3,5-Dimethyl Ester	CC1=C(C(OC)=O)C(C2=C(Cl)C(Cl)=CC=C2)C(C(OC)=O)=C(C)N1	impurity	DCTI-C-2035	dimethyl4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate	91189-59-2	3,5-Pyridinedicarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-, dimethyl ester (9CI) 3,5-Dimethyl 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylate;4-(2,3-Dichlorophenyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylic acid	C17H17Cl2NO4	370.23
1205	**Fenoterol**	Fenoterol EP Impurity A	OC1=CC([C@H](O)CN[C@H](C)CC2=CC=C(O)C=C2)=CC(O)=C1.CC(O)=O.OC3=CC([C@@H](O)CN[C@@H](C)CC4=CC=C(O)C=C4)=CC(O)=C3.CC(O)=O	impurity	DCTI-C-2225	Rel-5-((S)-1-hydroxy-2-(((R)-1-(4-hydroxyphenyl)propan-2-yl)amino)ethyl)benzene-1,3-diol acetate.	NA	Fenoterol impurity A.	C17H21NO4 (Free base) C19H25NO6 (Salt)	303.36 (Free base) 363.41 (Salt)
1206		Fesoterodine Diol Dimer Monoester	CC(C)C(OC1=CC=C(COCC2=CC=C(O)C([C@@H](C3=CC=CC=C3)CCN(C(C)C)C(C)C)=C2)C=C1[C@@H](C4=CC=CC=C4)CCN(C(C)C)C(C)C)=O.OC(/C=C/C(O)=O)=O	impurity	DCTI-C-2036	2-((R)-3-(diisopropylamino)-1-phenylpropyl)-4-(((3-((R)-3-(diisopropylamino)-1-phenylpropyl)-4-hydroxybenzyl)oxy)methyl)phenyl isobutyrate fumarate	NA	2-[(1R)-3-[Bis(1-methylethyl)amino]-1-phenylpropyl]-4-[[[3-[(1S)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-hydroxyphenyl]methoxy]methyl]phenyl 2-methylpropanoate; Monoester of symmetrical dimer Fesoterodine fumarate	C48H66N2O4 (Free Base); C52H70N2O8 (Fumarate Salt)	735.07 (Free Base); 851.14 (Fumarate Salt)
1207		Fesoterodine Diol Dimer Fumarate	OC1=CC=C(COCC2=CC=C(O)C([C@@H](C3=CC=CC=C3)CCN(C(C)C)C(C)C)=C2)C=C1[C@@H](C4=CC=CC=C4)CCN(C(C)C)C(C)C.OC(/C=C/C(O)=O)=O	Impurity	DCTI-C-2317	4,4'-(oxybis(methylene))bis(2-((R)-3-(diisopropylamino)-1-phenylpropyl)phenol) fumarate	NA	NA	C44H60N2O3(Free Base) C48H64N2O7(Fumarate salt)	664.98 (Free Base) 781.05 (Fumarate salt)

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1208	**Fesoterodine**	Fesoterodine Impurity P	O=C(C(C)C)OC1=CC=C(COC2=CC=C(CO)C=C2[C@H](CCN(C(C)C)C(C)C)C3=CC=CC=C3)C=C1[C@H](CCN(C(C)C)C(C)C)C4=CC=CC=C4.OC(/C=C/C(O)=O)=O	impurity	DCTI-C-1620	2-((R)-3-(diisopropylamino)-1-phenylpropyl)-4-((2-((R)-3-(diisopropylamino) -1-phenylpropyl)-4-(hydroxymethyl)phenoxy)methyl)phenyl isobutyrate fumarate	1380491-71-3	Fesoterodinyl (4-Hydroxy-tolterodine phenoxy) Ether	(Free Base): C48H66N2O4 with Fumarate salt: C52H70N2O8	(Free Base): 735.06 with Fumarate salt: 851.13
1209		Fesoterodine Aldehyde Impurity	O=CC1=CC([C@@H](C2=CC=CC=C2)CCN(C(C)C)C(C)C)=C(C=C1)OC(C(C)C)=O	Impurity	DCTI-C-3003	(R)-2-(3-(diisopropylamino)-1-phenylpropyl)-4-formylphenyl isobutyrate	1435768-96-9	Fesoterodine Isobutyrate Aldehyde Impurity	C26H35NO3	409.57
1210		Fesoterodine Fumaric Ester impurity	OC(/C=C/C(OCC(C=C1[C@H](CCN(C(C)C)C(C)C)C2=CC=CC=C2)=CC=C1OC(C(C)C)=O)=O)=O	Impurity	DCTI-C-3004	(R,E)-4-((3-(3-(diisopropylamino)-1-phenylpropyl)-4-(isobutyryloxy)benzyl)oxy)-4-oxobut-2-enoic acid	1254942-29-4	NA	C30H39NO6	509.64
1211		Fesoterodine Diol Aldehyde Impurity	O=CC1=CC([C@@H](C2=CC=CC=C2)CCN(C(C)C)C(C)C)=C(C=C1)O	Impurity	DCTI-C-3025	(R)-3-(3-(diisopropylamino)-1-phenylpropyl)-4-hydroxybenzaldehyde	214601-12-4	3-[(1R)-3-[Di(propan-2-yl)amino]-1-phenylpropyl]-4-hydroxybenzaldehyde; Fesoterodine Aldehyde of Diol	C22H29NO2	339.48
1212	**Fexofenadine**	Fexofenadine Cyclopropyl Ester Impurity	COC(C(C)(C1=CC=C(C=C1)C(C2CC2)=O)C)=O	Impurity	DCTI-C-3069	methyl 2-(4-(cyclopropanecarbonyl)phenyl)-2-methylpropanoate	880088-78-8	4-(Cyclopropylcarbonyl)-α,α-dimethylbenzeneacetic Acid Methyl Ester	C15H18O3	246.31
1213		Finasteride Δ-1-AZA ESTER [Ph.Eur. Impurity B]	O=C(OC)[C@H]1CC[C@@]2([C@@]1(CC[C@@]3([C@]4(C=CC(N[C@@]4(CC[C@]32[H])[H])=O)C)[H])C)[H]	Impurity	DCTI-C-3451	methyl (4aR,4bS,6aS,7S,9aS,9bS,11aR)-4a,6a-dimethyl-2-oxo-2,4a,4b,5,6,6a,7,8,9 ,9a,9b,10, 11, 11a-tetradecahydro-1H-indeno[5,4-f]quinoline-7-carboxylate	103335-41-7	Finasteride Methyl Ester Analog; Dutasteride Methyl Ester Analog; Finasteride EP Impurity B	C20H29NO3	331.46

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1214	Finasteride	Dihydrofinasteride	O=C(NC(C)(C)C)[C@H]1CC[C@@]2([C@@]1(CC[C@@]3([C@]4(CCC(N[C@@]4(CC[C@]32[H])[H])=O)C)[H])C)[H]	Impurity	DCTI-C-3473	(4aR,4bS,6aS,7S,9aS,9bS,11aR)-N-(tert-butyl)-4a,6a-dimethyl-2-oxohexadecahydro-1H-indeno[5,4-f]quinoline-7-carboxamide	98319-24-5	Finasteride EP Impurity A; 1,2-Dihydro Finasteride Impurity;	C23H38N2O2	374.57
1215	Fingolimod	Fingolimod Impurity-1	CCCCCCCCC1=CC=C(CCC(COC(C)=O)(COC(C)=O)NC(C)=O)C=C1	Impurity	DCTI-C-263	2-acetamido-2-(4-octylphenethyl)propane-1,3-diyl diacetate	162358-09-0	NA	C25H39NO5	433.59
1216		3-Phenethyl Fingolimod Impurity	CCCCCCCCC1=CC=C(CCC(CO)(CO)N)C=C1CCC2=CC=C(CCCCCCCC)C=C2	Impurity	DCTI-C-087	2-amino-2-(4-octyl-3-(4-octylphenethyl)phenethyl)propane-1,3-diol	851039-24-2	NA	C35H57NO2	523.85
1217		2-Phenethyl Fingolimod Impurity	CCCCCCCCC1=CC=C(CCC(CO)(CO)N)C(CCC2=CC=C(CCCCCCCC)C=C2)=C1	Impurity	DCTI-C-088	2-amino-2-(4-octyl-2-(4-octylphenethyl)phenethyl)propane-1,3-diol	851039-25-3	NA	C35H57NO2	523.85
1218		Fingolimod impurity-3	O=C(OCC)C(C(OCC)=O)(NC(C)=O)CCC1=CC=C(C=C1)CCCCCCCC	Impurity	DCTI-C-262	diethyl 2-acetamido-2-(4-octylphenethyl)malonate	162358-08-9	NA	C25H39NO5	433.59
1219		Fingolimod Phosphate	OCC(COP(O)(O)=O)(N)CCC1=CC=C(CCCCCCCC)C=C1	metabolite	DCTI-C-709	2-amino-2-(hydroxymethyl)-4-(4-octylphenyl)butyl dihydrogen phosphate	402615-91-2	FTY 720 phosphate; FTY 720P; FTY-P; Fingolimod-P	C19H34NO5P	387.46
1220		Finerenone amide impurity	O=C(N)C(C=C1OC)=CC=C1[C@H]2C3=C(C(C)=CN=C3OCC)NC(C)=C2C(N)=O	metabolite	DCTI-C-3021	(S)-4-(4-carbamoyl-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxamide	NA	NA	C21H24N4O4	396.45

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1221		Finerenone M1	N#CC1=CC=C(C2=C3C(C(C)=CN=C3OCC)=NC(C)=C2C(N)=O)C(OC)=C1	metabolite	DCTI-C-3324	4-(4-cyano-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,6-naphthyridine-3-carboxamide	2084136-51-4	Finerenone Impurity 10	C21H20N4O3	376.42
1222		4-(4-cyano-2-methoxyphenyl)-5-hydroxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxamide	N#CC1=CC=C(C2C3=C(C(C)=CN=C3O)NC(C)=C2C(N)=O)C(OC)=C1	metabolite	DCTI-C-3373	4-(4-cyano-2-methoxyphenyl)-5-hydroxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxamide	NA	Finerenone Impurity	C19H18N4O3	350.38
1223	**Finerenone**	Finerenone Impurity 4	N#CC1=CC=C(C2C3=C(C(C)=CN=C3OC(C)C)NC(C)=C2C(O)=O)C(OC)=C1	Impurity	DCTI-C-3595	4-(4-cyano-2-methoxyphenyl)-5-isopropoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxylic acid	2640280-87-9	NA	C22H23N3O4	393.44
1224		Finerenone Impurity 15	N#CC1=CC=C(C2C3=C(C(C)=CN=C3OCC)NC(C)=C2C(O)=O)C(OC)=C1	Impurity	DCTI-C-3596	4-(4-cyano-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxylic acid	1050477-45-6	NA	C21H21N3O4	379.42
1225		Finerenone Related Impurity	N#CC(C=C1OC)=CC=C1C2C3=C(C(C)=CNC3=O)NC(C)=C2C(OCC4=CC=CC=C4)=O	Impurity	DCTI-C-3597	benzyl 4-(4-cyano-2-methoxyphenyl)-2,8-dimethyl-5-oxo-1,4,5,6-tetrahydro-1,6-naphthyridine-3-carboxylate	2389020-00-0	NA	C26H23N3O4	441.49
1226		(Rac)-Finerenone	N#CC(C=C1OC)=CC=C1C2C3=C(C(C)=CN=C3OCC)NC(C)=C2C(N)=O	Impurity	DCTI-C-3758	4-(4-cyano-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxamide	1050477-27-4	NA	C21H22N4O3	378.43
1227		(R)-Finerenone	N#CC1=CC=C([C@@H]2C3=C(C(C)=CN=C3OCC)NC(C)=C2C(N)=O)C(OC)=C1	Impurity	DCTI-C-3901	(R)-4-(4-cyano-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxamide	1050477-30-9	NA	C21H22N4O3	378.43
1228	**Flecainide**	N-Nitroso Flecainide impurity	O=C(NCC1CCCCN1N=O)C2=CC(OCC(F)(F)F)=CC=C2OCC(F)(F)F	NDSRI	DCTI-C-3695	N-((1-nitrosopiperidin-2-yl)methyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide	2901109-58-6	NA	C17H19F6N3O4	443.35

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1229	Fluconazole	Fluconazole Related Compound # 6, (FN RC6)	FC1=C(/C(CN2N=CN=C2)=C\N3C=NC=N3)C=CC(F)=C1	Impurity	DCTI-C-011	(E)-1,1'-(2-(2,4-difluorophenyl)prop-1-ene-1,3-diyl)bis(1H-1,2,4-triazole)	163921-61-7	NA	C13H10F2N6	288.26
1230		2-(2- Chloro-4-fluorophenyl)-1,3-bis-[1,2,4]triazole-1-yl-propane-2-ol(chloro fluoro impurity)	ClC1=C(C(CN2C=NC=N2)(O)CN3N=CN=C3)C=CC(F)=C1	impurity	DCTI-C-2206	2-(2-chloro-4-fluorophenyl)-1,3-di(1H-1,2,4-triazol-1-yl)propan-2-ol	NA	±-(2-chloro-4-fluorophenyl)-±-(1H-1,2,4-triazol-1-ylmethyl)-1H-1,2,4-triazole-1-ethanol; α-(2-Chloro-4-fluorophenyl)-α-(1H-1,2,4-triazol-1-ylmethyl)-1H-1,2,4-triazole-1-ethanol; Fluconazole Impurity 35.	C13H12ClFN6O	322.73
1231		Fluconazole Related Compound # 4 (FN RC4)	FC1=C(/C(CN2N=CN=C2)=C/N3N=CN=C3)C=CC(F)=C1	Impurity	DCTI-C-012	(Z)-1,1'-(2-(2,4-difluorophenyl)prop-1-ene-1,3-diyl)bis(1H-1,2,4-triazole)	163921-62-8	NA	C13H10F2N6	288.26
1232		2-(4-chloro-2-fluorophenyl)-1,3-di(1H-1,2,4-triazol-1-yl)propan-2-ol	FC1=C(C(CN2C=NC=N2)(O)CN3N=CN=C3)C=CC(Cl)=C1	Impurity	DCTI-C-2427	2-(4-chloro-2-fluorophenyl)-1,3-di(1H-1,2,4-triazol-1-yl)propan-2-ol	153044-07-6	na	C13H12ClFN6O	322.73
1233	Flumazenil	Flumazenil EP Impurity-B	OC1=CC(C(N(CC2=C(C(OCC)=O)N=CN23)C)=O)=C3C=C1	impurity	DCTI-C-1240	ethyl 8-hydroxy-5-methyl-6-oxo-5,6-dihydro-4H-benzo[f]imidazo[1,5-a][1,4]diazepine-3-carboxylate	131666-45-0	Desfluoro 8-hydroxy flumazenil; Flumazenil related compound-8; Ro 40-1518	C15H15N3O4	301.3
1234		Flumazenil related compound A	O=C(C1=C(CN2C)N(C=N1)C3=CC=C(F)C=C3C2=O)O	impurity	DCTI-C-2227	8-fluoro-5-methyl-6-oxo-5,6-dihydro-4H-benzo[f]imidazo[1,5-a][1,4]diazepine-3-carboxylic acid.	NA	Flumazenil Carboxylic Acid; Desethylflumazenyl; Flumazenil acid.	C13H10FN3O3	275.24

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1235	FLUMETHASONE	17-KETO FLUMETHASONE	O=C(C=C1[C@@H](F)C[C@@]2([H])[C@]3([H])C[C@H]4C)C=C[C@]1(C)[C@@]2(F)[C@@H](O)C[C@]3(C)C4=O	impurity	DCTI-C-2037	(6S,8S,9R,10S,11S,13S,14S,16R)-6,9-difluoro-11-hydroxy-10,13,16-trimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3H-cyclopenta[a]phenanthrene-3,17(6H)-dione	25256-97-7	(6a,11b,16a)-6,9-Difluoro-11-hydroxy-16-methylandrosta-1,4-diene-3,17-dione.	C20H24F2O3	350.41
1236		Flumethasone impurity 7	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3C[C@@H](C)/C4=C(C=O)/O)=C1.[R]	Impurity	DCTI-C-1478	(Z)-2-((6S,9R,10S,11S,13S,16R)-6,9-difluoro-11-hydroxy-10,13,16-trimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)-2-hydroxyacetaldehyde	NA	NA	C22H26F2O4	392.44
1237	Fluocinolone	Fluocinolone Acetonide Impurity 4	O=C1C=C2[C@@](C)([C@@]3([C@@H](C[C@@H]2F)[C@H]4[C@]([C@@H]5OC(C)(C)O[C@@H]5C4)(C)C[C@@H]3O)F)C=C1	impurity	DCTI-C-1180	(2S,6aS,6bR,7S,8aS,8bS,11aR,12aS,12bS)-2,6b-difluoro-7-hydroxy-6a,8a,10,10-tetramethyl-1,2,6a,6b,7,8,8a,8b,11a,12,12a,12b-dodecahydro-4H-naphtho[2',1':4,5]indeno[1,2-d][1,3]dioxol-4-one	389119-98-6	NA	C22H28F2O4	394.46
1238		1,3-bis(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propane	FC(C1=CC2=C(C=C1)SC3=CC=CC=C3N2CCCN4C(C=CC=C5)=C5SC6=C4C=C(C(F)(F)F)C=C6)(F)F	Impurity	DCTI-C-231	1,3-bis(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propane	939382-28-2	NA	C29H20F6N2S2	574.6
1239		10-(3-bromopropyl)-2-(trifluoromethyl)-10H-phenothiazine	BrCCCN1C2=C(C=CC(C(F)(F)F)=C2)SC3=CC=CC=C31	Impurity	DCTI-C-232	10-(3-bromopropyl)-2-(trifluoromethyl)-10H-phenothiazine	1675-43-0	NA	C16H13BrF3NS	388.25

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1240	Fluphenazine	Fluphenazine EP Impurity-A	FC(F)(C1=CC(N(CCCN2CCN(CC2)CCO)C3=C4C=CC=C3)=C(C=C1)S4=O)F	Impurity	DCTI-C-098	10-(3-(4-(2-hydroxyethyl)piperazin-1-yl)propyl)-2-(trifluoromethyl)-10H-phenothiazine 5-oxide	1674-76-6	Fluphenazine sulfoxide	C22H26F3N3O2S	453.52
1241		Fluphenazine Impurity-B	FC(F)(C1=CC(N(CCCN2CCN(CC2)CCO)C3=C4C=CC=C3)=C(C=C1)S4(=O)=O)F	Impurity	DCTI-C-099	10-(3-(4-(2-hydroxyethyl)piperazin-1-yl)propyl)-2-(trifluoromethyl)-10H-phenothiazine 5,5-dioxide	1476-79-5	NA	C22H26F3N3O3S	469.52
1242		Fluphenazine Impurity-D	FC(F)(C1=CC2=C(C=C1)SC(C=CC=C3)=C3N2CCCN4CCN(CCCN5C(C=C6C(F)(F)F)=C(C=C6)SC7=C5C=CC=C7)CC4)F	Impurity	DCTI-C-100	1,4-bis(3-(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propyl)piperazine	2376-89-8	NA	C36H34F6N4S2	700.81
1243		7-Bromo fluphenazine	BrC1=CC2=C(N(CCCN3CCN(CCO)CC3)C4=C(C=CC(C(F)(F)F)=C4)S2)C=C1	Impurity	DCTI-C-183	2-(4-(3-(7-bromo-2-(trifluoromethyl)-10H-phenothiazin-10-yl)propyl)piperazin-1-yl)ethan-1-ol	NA	NA	C22H25BrF3N3OS	516.42
1244		7-Hydroxy Fluphenazine	OC1=CC2=C(N(CCCN3CCN(CCO)CC3)C4=C(C=CC(C(F)(F)F)=C4)S2)C=C1	Impurity	DCTI-C-184	10-(3-(4-(2-hydroxyethyl)piperazin-1-yl)propyl)-8-(trifluoromethyl)-10H-phenothiazin-3-ol	33098-48-5	SQ 11426	C22H26F3N3O2S	453.52

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1245		Fluphenazine Impurity-C	OCCN(CC1)CCN1CCCN2C3=C(C=CC(C(F)(F)F)=C3)SC4=C2C=CC(N5C(C=CC=C6)=C6SC7=C5C=C(C(F)(F)F)C=C7)=C4	Impurity	DCTI-C-101	2-(4-(3-(2',8-bis(trifluoromethyl)-10H-[3,10'-biphenothiazin]-10-yl)propyl)piperazin-1-yl)ethan-1-ol	NA	NA	C35H32F6N4OS2	702.78
1246		Fluphenazine Impurity-E	ClC1=CC2=C(C=C1)SC3=C(C=CC=C3)N2CCCN4CCN(CCO)CC4	Impurity	DCTI-C-245	2-(4-(3-(2-chloro-10H-phenothiazin-10-yl)propyl)piperazin-1-yl)ethan-1-ol	58-39-9	NSC 150866; Sch 3940	C21H26ClN3OS	403.97
1247		Fluphenazine Palmitate / Fluphenazine Impurity 1	FC(F)(F)C(C=C1)=CC2=C1SC3=CC=CC=C3N2CCCN4CCN(CCOC(CCCCCCCCCCCCCCC)=O)CC4	Impurity	DCTI-C-353	2-(4-(3-(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propyl)piperazin-1-yl)ethyl palmitate	85137-32-2	Fluphenazine palmitate	C38H56F3N3O2S	675.94
1248		Fluphenazine Stearate / Fluphenazine Impurity-2	FC(F)(F)C(C=C1)=CC2=C1SC3=CC=CC=C3N2CCCN4CCN(CCOC(CCCCCCCCCCCCCCCCC)=O)CC4	Impurity	DCTI-C-354	2-(4-(3-(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propyl)piperazin-1-yl)ethyl stearate	2285-19-0	Fluphenazine stearate	C40H60F3N3O2S	703.99
1249		Fluphenazine DCO Deconate Impurity	CCCCCCCCCC(OCCN1CCN(CCCN2C3=C(C=CC(C(F)(F)F)=C3)SC4=CC(N5C6=C(C=CC=C6)SC7=CC=C(C(F)(F)F)C=C57)=CC=C24)CC1)=O	Impurity	DCTI-C-3385	2-(4-(3-(2',8-bis(trifluoromethyl)-10H-[3,10'-biphenothiazin]-10-yl)propyl)piperazin-1-yl)ethyl decanoate	na	na	C45H50F6N4O2S2	857.03
1250		Fluticasone Propionate EP impurity A	C[C@@]12[C@](OC(CC)=O)([C@@H](C[C@]1([C@@]3(C[C@@H](C4=CC(C=C[C@@]4([C@]3([C@H](C2)O)F)C)=O)F)[H])[H])C)C(O)=O	Impurity	DCTI-C-2994	(6S,8S,9R,10S,11S,13S,14S,16R,17R)-6,9-difluoro-11-hydroxy-10,13,16-trimethyl-3-oxo-17-(propionyloxy)-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	65429-42-7	Fluticasone 17b-Carboxylic Acid Propionate	C24H30F2O6	452.49

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1251	**Fluticasone**	Fluticasone Propionate EP impurity F	C[C@@]12[C@](OC(CC)=O)([C@@H](C[C@]1([C@@]3(C[C@@H](C4=CC(C=C[C@@]4([C@]3(C(C2)=O)F)C)=O)F)[H])[H])C)C(SCF)=O	Impurity	DCTI-C-2997	(6S,8S,9R,10S,13S,14S,16R,17R)-6,9-difluoro-17-(((fluoromethyl)thio)carbonyl)-10,13,16-trimethyl-3,11-dioxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl propionate	1219174-94-3	11-Oxo Fluticasone Propionate	C25H29F3O5S	498.56
1252		Fluticasone Related Compound J	C[C@@]12[C@](O)([C@@H](C[C@]1([C@@]3(C[C@@H](C4=CC(C=C[C@@]4([C@]3([C@H](C2)O)F)C)=O)F)[H])[H])C)C(O)=O	Impurity	DCTI-C-2998	(6S,8S,9R,10S,11S,13S,14S,16R,17R)-6,9-difluoro-11,17-dihydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	28416-82-2	Fluticasone 17b-Carboxylic Acid	C21H26F2O5	396.43
1253	**Flurbiprofen**	(R) - Flurbiprofen	FC1=CC([C@@H](C)C(O)=O)=CC=C1C2=CC=CC=C2	Impurity	DCTI-C-793	[1,1'-Biphenyl]-4-acetic acid, 2-fluoro-α-methyl-, (αR)-	51543-40-9	(-)-Flurbiprofen; R-(-)-Flurbiprofen; E 7869; Flurizan; MPC 7869; Tarenflurbil	C15H13FO2	244.27
1254		(S) - Flurbiprofen	FC1=CC([C@H](C)C(O)=O)=CC=C1C2=CC=CC=C2	Impurity	DCTI-C-794	[1,1'-Biphenyl]-4-acetic acid, 2-fluoro-α-methyl-, (αS)-	51543-39-6	(+)-Flurbiprofen; S-(+)-Flurbiprofen; Dexflurbiprofen; Esflurbiprofen	C15H13FO2	244.27
1255		Fluvoxamine acid N-Acetyl Impurity	OC(CCC/C(C1=CC=C(C(F)(F)F)C=C1)=N\OCCNC(C)=O)=O	Impurity	DCTI-C-901	(E)-5-((2-acetamidoethoxy)imino)-5-(4-(trifluoromethyl)phenyl)pentanoic acid	88699-87-0	NA	C16H19F3N2O4	360.33
1256		Fluvoxketone	O=C(CCCCOC)C1=CC=C(C(F)(F)F)C=C1	Impurity	DCTI-C-902	5-methoxy-1-(4-(trifluoromethyl)phenyl)pentan-1-one	61718-80-7	Fluvoxamine EP impurity D	C13H15F3O2	260.26
1257		Fluvoxamine EP impurity J	NCCO/N=C(CC1=CC=CC=C1)/C2=CC=C(C(F)(F)F)C=C2	Impurity	DCTI-C-1479	(E)-2-phenyl-1-(4-(trifluoromethyl)phenyl)ethan-1-one O-(2-aminoethyl) oxime	NA	NA	C17H17F3N2O	322.33

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1258	Fluvoxamine	Fluvoxethanol	FC(C1=CC=C(/C(CCCCOC)=N/OCCO)C=C1)(F)F	impurity	DCTI-C-972	(E)-5-methoxy-1-(4-(trifluoromethyl)phenyl)pentan-1-one O-(2-hydroxyethyl) oxime	88699-85-8	NA	C15H20F3NO3	319.32
1259		Fluvoxamine EP impurity I	O/N=C(CCCCOC)/C1=CC=C(C(F)(F)F)C=C1	impurity	DCTI-C-1064	(E)-5-methoxy-1-(4-(trifluoromethyl)phenyl)pentan-1-one oxime	88699-84-7	NA	C13H16F3NO2	275.27
1260		Fluvoxamine Maleamide	COCCCC/C(C(C=C1)=CC=C1C(F)(F)F)=N\OCCNC(/C=C\C(O)=O)=O	IMPURITY	DCTI-C-3493	(7E,14Z)-13-oxo-7-(4-(trifluoromethyl)phenyl)-2,9-dioxa-8,12-diazahexadeca-7,14-dien-16-oic acid	1076198-14-5	NA	C19H23F3N2O5	416.4
1261		Fluvoxamine acid	NCCO/N=C(CCCC(O)=O)/C1=CC=C(C(F)(F)F)C=C1.Cl	Impurity	DCTI-C-3570	(E)-5-((2-aminoethoxy)imino)-5-(4-(trifluoromethyl)phenyl)pentanoic acid hydrochloride	NA	Fluvoxamine acid hydro chloride	C14H17F3N2O3 (Free base); C14H18ClF3N2O3(HCl salt)	318.30 (Free base); 354.75 (HCl salt)
1262		Fluvoxamine Z-isomer maleate	FC(F)(C1=CC=C(/C(CCCCOC)=N\OCCN)C=C1)F.O=C(/C=C\C(O)=O)O	Impurity	DCTI-C-3589	(Z)-5-methoxy-1-(4-(trifluoromethyl)phenyl) pentan-1-one O-(2-aminoethyl) oxime maleate	917096-37-8	(Z) Fluvoxamine maleate	C15H21F3N2O2 (Free base); C19H25F3N2O6 (Maleate Salt)	318.34 (Free base) 434.41 (Maleate Salt)
1263		Fluvoxamine Z-isomer maleate	FC(F)(C1=CC=C(/C(CCCCOC)=N\OCCN)C=C1)F.O=C(/C=C\C(O)=O)O	Impurity	DCTI-C-3589	(Z)-5-methoxy-1-(4-(trifluoromethyl)phenyl)pentan-1-one O-(2-aminoethyl) oxime maleate	917096-37-8	(Z) Fluvoxamine maleate	C15H21F3N2O2 (Free base) C19H25F3N2O6 (Maleate Salt)	318.34 (Free base) 434.41 (Maleate Salt)
1264		N-Nitroso Fluvoxamine Impurity K	CCCC/C(C1=CC=C(C(F)(F)F)C=C1)=N\OCCN(N=O)CCN.O=C(/C=C\C(O)=O)O	NDSRI	DCTI-C-3790	(E)-N-(2-aminoethyl)-N-(2-(((1-(4-(trifluoromethyl)phenyl)pentylidene)amino)oxy)ethyl)nitrous amide maleate	NA	N-Nitroso Fluvoxamine Impurity K Malete	C20H27F3N4O6 (Maleate salt) C16H23F3N4O2 (Free base)	476.45 (Maleate salt) 360.38 (Free base)
1265	Fluoxetine	N-Nitroso Fluoxetine	CN(N=O)CCC(OC1=CC=C(C(F)(F)F)C=C1)C2=CC=CC=C2	NDSRI	DCTI-C-3541	N-methyl-N-(3-phenyl-3-(4-(trifluoromethyl)phenoxy)propyl)nitrous amide	150494-06-7	NA	C17H17F3N2O2	338.33
1266		Lactose-Fluoxetine Amadori Rearrangement product	OC[C@@H](O)[C@@H](O[C@H]1[C@H](O)[C@@H](O)[C@@H](O)[C@@H](CO)O1)[C@H](O)C(CN(C)CCC(C2=CC=CC=C2)OC3=CC=C(C(F)(F)F)C=C3)=O.[H]C(O)=O	Metabolite	DCTI-C-3588	(3S,4R,5R)-3,5,6-trihydroxy-1-(methyl(3-phenyl-3-(4-(trifluoromethyl) phenoxy)propyl)amino)-4-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)hexan-2-one formate	NA	NA	C29H38F3NO11 (Free base); C30H40F3NO13 (Formic acid salt)	633.61 (Free base); 679.64 (Formic acid salt)

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1267	Folicacid	7,8-Dihydrofolicacid	O=C(O)C(NC(C1=CC=C(NCC2=NC3=C(NC2)N=C(N)NC3=O)C=C1)=O)CCC(O)=O	Impurity	DCTI-C-3448	(4-(((2-amino-4-oxo-3,4,7,8-tetrahydropteridin-6-yl)methyl)amino)benzoyl)glutamic acid	4033-27-6	Dihydrofolic Acid	C19H21N7O6	443.42
1268		7,8-Dihydrofolicacid	OC1=C(N)C=C(C(CNC(C)CC2=CC=C(C=C2)OC)O)C=C1	Impurity	DCTI-C-891	2-amino-4-(1-hydroxy-2-((1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenol	652994-19-9	NA	C18H24N2O3	316.39
1269		(R,R)-Formoterol	C[C@H](CC1=CC=C(OC)C=C1)NC[C@H](O)C2=CC=C(O)C(NC=O)=C2	impurity	DCTI-C-1456	N-(2-hydroxy-5-((R)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)formamide	67346-49-0	(-)-Formoterol; Arformoterol	C19H24N2O4	344.41
1270		(S,S)-Formoterol	C[C@@H](CC1=CC=C(OC)C=C1)NC[C@@H](O)C2=CC=C(O)C(NC=O)=C2	impurity	DCTI-C-1386	N-(2-hydroxy-5-((S)-1-hydroxy-2-(((S)-1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)formamide	67346-48-9	(+)-Formoterol	C19H24N2O4	344.41
1271		(S,R)-Formoterol	C[C@H](CC1=CC=C(OC)C=C1)NC[C@@H](O)C2=CC=C(O)C(NC=O)=C2	impurity	DCTI-C-1388	N-(2-hydroxy-5-((S)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)formamide	67346-50-3	NA	C19H24N2O4	344.41
1272		Formoterol EP impurity C (Mixture of Diastereomers)	OC1=C(NC(C)=O)C=C(C(CNC(C)CC2=CC=C(C=C2)OC)O)C=C1	Impurity	DCTI-C-892	N-(2-hydroxy-5-(1-hydroxy-2-((1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)acetamide	1795135-61-3	N-Deformyl-N-acetyl Formoterol	C20H26N2O4	358.43
1273		Formoterol Related Compound I	O[C@@H](CN[C@H](CC1=CC=C(OC)C=C1)C2=CC(NC=O)=C(O)C=C2 & O[C@H](CN[C@@H](CC1=CC=C(OC)C=C1)C)C2=CC(NC=O)=C(O)C=C2	Impurity	DCTI-C-530	N-(2-hydroxy-5-((R)-1-hydroxy-2-(((S)-1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)formamide	67346-51-4	NA	C19H24N2O4	344.41

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1274		Formoterol EP impurity D (Mixture of Diastereomers)	OC1=C(C=C(C=C1)C(O)CN(C(CC2=CC=C(OC)C=C2)C)C)NC([H])=O	impurity	DCTI-C-1029	N-(2-hydroxy-5-(1-hydroxy-2-((1-(4-methoxyphenyl)propan-2-yl)(methyl)amino)ethyl)phenyl)formamide	NA	N-Methyl Formoterol Fumarate (Mixture of Diastereomers)	C20H26N2O4	358.43
1275		rac-O-Benzyl N-Benzyl Formoterol	OC(CN(CC1=CC=CC=C1)C(C)CC2=CC=C(C=C2)OC)C3=CC(NC([H])=O)=C(OCC4=CC=CC=C4)C=C3	impurity	DCTI-C-1031	N-(5-(2-(benzyl(1-(4-methoxyphenyl)propan-2-yl)amino)-1-hydroxyethyl)-2-(benzyloxy)phenyl)formamide	43229-70-5	N,O-Dibenzylated formoterol	C33H36N2O4	524.65
1276		N-Benzyl Formoterol	Oc1ccc([C@H](CN(CC2=CC=CC=C2)[C@@H](Cc3ccc(OC)cc3)C)O)cc1NC=O & Oc1ccc([C@@H](CN(CC2=CC=CC=C2)[C@H](Cc3ccc(OC)cc3)C)O)cc1NC=O	impurity	DCTI-C-1030	N-(5-((R*)-2-(benzyl((R*)-1-(4-methoxyphenyl)propan-2-yl)amino)-1-hydroxyethyl)-2-hydroxyphenyl)formamide-rel-	1337876-26-2	Formoterol EP Impurity H; Formoterol Related Compound H	C26H30N2O4	434.53
1277		AC Nitro compound	O[C@@H](CN(C(C1=CC=CC=C1)C)[C@H](C)CC2=CC=C(OC)C=C2)C3=CC=C(OCC4=CC=CC=C4)C([N+]([O-])=O)=C3	impurity	DCTI-C-1054	(1R)-1-(4-(benzyloxy)-3-nitrophenyl)-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)(1-phenylethyl)amino)ethan-1-ol	NA	NA	C33H36N2O5	540.65
1278		AC-Amino compound	O[C@@H](CN(C(C1=CC=CC=C1)C)[C@H](C)CC2=CC=C(OC)C=C2)C3=CC=C(OCC4=CC=CC=C4)C(N)=C3	impurity	DCTI-C-1055	(1R)-1-(3-amino-4-(benzyloxy) phenyl)-2-(((R)-1-(4-methoxyphenyl) propan-2-yl) (1-phenylethyl) amino) ethan-1-ol	NA	Formoterol impurity; Arformoterol impurity	C33H38N2O3	510.68
1279		AC-Formyl compound	O[C@@H](CN(C(C1=CC=CC=C1)C)[C@H](C)CC2=CC=C(OC)C=C2)C3=CC=C(OCC4=CC=CC=C4)C(NC([H])=O)=C3	impurity	DCTI-C-1056	N-(2-(benzyloxy)-5-((1R)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl) propan-2-yl) (1-phenylethyl) amino) ethyl) phenyl) formamide	NA	Formoterol impurity; Arformoterol impurity	C34H38N2O4	538.69
1280		Formoterol related compound E (Mixture of Diastereomers)	OC1=C(NC([H])=O)C=C(C(CNC(C)CC2=CC(C)=C(C=C2)OC)O)C=C1	impurity	DCTI-C-1057	N-(2-hydroxy-5-(1-hydroxy-2-((1-(4-methoxyphenyl)propan-2-yl)(methyl)amino)ethyl)phenyl)acetamide	1616967-26-0	Formoterol EP impurity E; 3-Methyl Formoterol	C20H26N2O4	358.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1281	Formoterol	N-(2-(benzyloxy)-5-(1-hydroxyethyl)phenyl)formamide	CC(O)C1=CC=C(OCC2=CC=CC=C2)C(NC=O)=C1	impurity	DCTI-C-1058	N-(2-(benzyloxy)-5-(1-hydroxyethyl)phenyl)formamide	NA	Arformoterol impurity; Formoterol impurity	C16H17NO3	271.32
1282		N-(2-(benzyloxy)-5-ethylphenyl)formamide	CCC1=CC=C(OCC2=CC=CC=C2)C(NC=O)=C1	impurity	DCTI-C-1059	N-(2-(benzyloxy)-5-ethylphenyl)formamide	NA	Arformoterol impurity; Formoterol impurity	C16H17NO2	255.32
1283		R (+) Diphenyl amine dimer impurity	C[C@@H](N[C@H](C)C1=CC=CC=C1)C2=CC=CC=C2.Cl	impurity	DCTI-C-1060	(R)-bis((R)-1-phenylethyl)amine hydrochloride	NA	Arformoterol impurity; Formoterol impurity	C16H19N (Free base) C16H20ClN (HCl Salt)	225.34 (Free base) 261.79 (HCl Salt)
1284		Formoterol impurity-1	OC1=C(N(C)C=O)C=C(C(CNC(CC2=CC=C(C=C2)OC)C)O)C=C1	impurity	DCTI-C-1117	N-(2-hydroxy-5-(1-hydroxy-2-((1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)-N-methylformamide	NA	NA	C20H26N2O4	358.44
1285		O-DE BENZYL AC-AMINO COMPOUND	O[C@@H](CN(C(C1=CC=CC=C1)C)[C@H](C)CC2=CC=C(OC)C=C2)C3=CC=C(O)C(N)=C3	impurity	DCTI-C-1089	2-amino-4-((1R)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)(1-phenylethyl)amino)ethyl)phenol	NA	NA	C26H32N2O3	420.55
1286		4-METHOXY-3-METHYLPHENYLACETONE	CC1=C(OC)C=CC(CC(C)=O)=C1	impurity	DCTI-C-2226	1-(4-methoxy-3-methylphenyl)propan-2-one	NA	2-Propanone, 1-(4-methoxy-3-methylphenyl)-	C11H14O2	178.23
1287		Formoterol impurity-2	OC1=C(NC=O)C=C(C(C)O)C=C1	impurity	DCTI-C-1118	N-(2-hydroxy-5-(1-hydroxyethyl)phenyl)formamide	NA	NA	C9H11NO3	181.19

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1288		Formoterol EP impurity B	OC1=C(NC([H])=O)C=C(C(CNCCC2=CC=C(C=C2)OC)O)C=C1	impurity	DCTI-C-1177	N-(2-hydroxy-5-(1-hydroxy-2-((4-methoxyphenethyl)amino)ethyl)phenyl)formamide	1224588-66-2	Formoterol Fumarate RC B; USP Formoterol related compound B; Formoterol fumarate EP impurity B; Formoterol fumarate related compound B	C18H22N2O4	330.38
1289		Formoterol impurity 3	OC1=CC(C2)=C(C(CN2C(CC3=CC=C(C=C3)OC)C)O)C=C1N	impurity	DCTI-C-1217	6-amino-2-(1-(4-methoxyphenyl)propan-2-yl)-1,2,3,4-tetrahydroisoquinoline-4,7-diol	NA	Arformoterol cyclic impurity	C19H24N2O3	328.41
1290		N-Ethyl Formoterol	O=CNC1=CC(C(O)CN(CC)C(C)CC2=CC=C(OC)C=C2)=CC=C1O	Impurity	DCTI-C-3031	N-(5-(2-(ethyl(1-(4-methoxyphenyl)propan-2-yl)amino)-1-hydroxyethyl)-2-hydroxyphenyl)formamide	NA	NA	C21H28N2O4	372.47
1291		Formoterol desphenolic hydroxy impurity	OC(CNC(C)CC1=CC=C(C=C1)OC)C2=CC(NC([H])=O)=CC=C2	Impurity	DCTI-C-1222	N-(3-(1-hydroxy-2-((1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)formamide	NA	Formoterol Impurity	C19H24N2O3	328.41
1292		Formoterol EP Impurity-G	NC(C)CC1=CC=C(OC)C=C1	Impurity	DCTI-C-1223	1-(4-methoxyphenyl)propan-2-amine	64-13-1	Formoterol fumarate EP impu	C10H15NO	165.24
1293		Formoterol Nitroso Impurity	O=CNC1=CC([C@@H](O)CN([C@H](C)CC2=CC=C(OC)C=C2)N=O)=CC=C1O	NDSRI	DCTI-C-3651	N-(2-hydroxy-5-((RS)-1-hydroxy-2-(((RS)-1-(4-methoxyphenyl)propan-2-yl)(nitroso)amino)ethyl)phenyl)formamide	NA	Nitroso Formoterol (Mixture of isomers)	C19H23N3O5	373.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1294		Fosamprenavir Pyrophosphate Impurity	O=C(O[C@@H]1COCC1)N[C@H]([C@H](OP(OP(O)(O)=O)(O)=O)CN(CC(C)C)S(=O)(C2=CC=C(N)C=C2)=O)CC3=CC=CC=C3	MEtabolite	DCTI-C-2516	(S)-tetrahydrofuran-3-yl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-((hydroxy(phosphonooxy)phosphoryl)oxy)-1-phenylbutan-2-yl)carbamate	NA	NA	C25H37N3O12P2S	665.59
1295		Bis Fosamprenavir Triphosphate Impurity	O=C(O[C@@H]1COCC1)N[C@H]([C@H](OP(O)(OP(O)(OP(O)(O[C@@H][C@@H](NC(O[C@@H]2COCC2)=O)CC3=CC=CC=C3)CN(CC(C)C)S(=O)(C4=CC=C(N)C=C4)=O)=O)=O)=O)CN(CC(C)C)S(=O)(C5=CC=C(N)C=C5)=O)CC6=CC=CC=C6	Impurity	DCTI-C-2521	(S)-tetrahydrofuran-3-yl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-3-(((((((((2R,3S)-1-((4-amino-N-isobutylphenyl)sulfonamido)-4-phenyl-3-(((((S)-tetrahydrofuran-3-yl)oxy)carbonyl)amino)butan-2-yl)oxy)(hydroxy)phosphoryl)oxy)(hydroxy)phosphoryl)oxy)(hydroxy)phosphoryl)oxy)-1-phenylbutan-2-yl)carbamate	NA	Bis[(3S)-tetrahydro-3-furanyl] (3S,4R,12R,13S)-4,12-bis({[(4-aminophenyl) sulfonyl](2-methylpropyl)amino}methyl)-6,8,10-trihydroxy-3,13-bis(phenylmethyl)-5,7,9,11-tetroxa-2,14-diaza-6,8,10-triphosphapentadecanedioate 6,8,10-trioxide.	C50H71N6O20P3S2	1233.18
1296		Fosamprenavir Impurity 2	O=C(O[C@@H]1COCC1)N[C@H]([C@H](OP(O)(OP(O)(O[C@@H][C@@H](NC(O[C@@H]2COCC2)=O)CC3=CC=CC=C3)CN(CC(C)C)S(=O)(C4=CC=C(N)C=C4)=O)=O)CN(CC(C)C)S(=O)(C5=CC=C(N)C=C5)=O)CC6=CC=CC=C6.N	Impurity	DCTI-C-2513	bis((S)-tetrahydrofuran-3-yl) ((2S,2'S,3R,3'R)-((1,3-dihydroxy-1,3-dioxo-115,315-diphosphooxane-1,3-diyl)bis(oxy))bis(4-((4-amino-N-isobutylphenyl)sulfonamido)-1-phenylbutane-3,2-diyl))dicarbamate Ammonium salt	NA	Fosamprenavir Impurity 8: Bisfosamprenavir Pyrophosphat	C50H70N6O17P2S2 (Free Base) C50H73N7O17P2S2 (Ammonium Salt	1170.23 (Ammonium Salt)1153.20 (Free Base)
1297		Fosamprenavir Amine Impurity	O=P(O)(O[C@@H]([C@@H](N)CC1=CC=CC=C1)CNS(=O)(C2=CC=C(NCC(C)C)C=C2)=O)O	Impurity	DCTI-C-2540	(2R,3S)-3-amino-1-((4-amino-N-isobutylphenyl)sulfonamido)-4-phenylbutan-2-yl dihydrogen phosphate	2078048-42-5 (Racemic)	1. Benzenesulfonamide, 4-amino-N-[3-amino-4-phenyl-2-(phosphonooxy)butyl]-N-(2-methylpropyl)- (ACI)1.Benzenesulfonamide, 4-amino-N-[3-amino-4-phenyl-2-(phosphonooxy)butyl]-N-(2-methylpropyl)- (ACI) 2.4-Amino-N-[3-amino-4-	C20H30N3O6PS	471.51

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1298		Fosamprenavir Ethyl Ester Impurity	O=C(OCC)N[C@H]([C@H](OP(O)(O)=O)CN(CC(C)C)S(=O)(C1=CC=C(N)C=C1)=O)CC2=CC=CC=C2	Impurity	DCTI-C-2542	Ethyl ((2S,3R)-4-((4-amino-N-isobutylphenyl)sulfonamido)-1-phenyl-3-(phosphonooxy)butan-2-yl)carbamate	NA	NA	C23H34N3O8PS	543.57
1299		Fosamprenavir N-Propyl Homolog Impurity	O=C(O[C@@H]1COCC1)N[C@H]([C@H](OP(O)(O)=O)CN(CCC)S(=O)(C2=CC=C(N)C=C2)=O)CC3=CC=CC=C3	Impurity	DCTI-C-2571	(S)-tetrahydrofuran-3-yl ((2S,3R)-4-((4-amino-N-propylphenyl)sulfonamido)-1-phenyl-3-(phosphonooxy)butan-2-yl)carbamate	1332577-23-7	NA	C24H34N3O9PS	571.58
1300		Fosamprenavir N-Butyl isomer Impurity	NC1=CC=C(S(=O)(N(C[C@@H](OP(O)(O)=O)[C@H](CC2=CC=CC=C2)NC(O[C@H]3CCOC3)=O)CCCC)=O)C=C1	IMPURITY	DCTI-C-2594	(S)-tetrahydrofuran-3-yl ((2S,3R)-4-((4-amino-N-butylphenyl)sulfonamido)-1-phenyl-3-(phosphonooxy)butan-2-yl)carbamate	NA	NA	C25H36N3O9PS	585.61
1301	**Foscarnet**	Foscarnet Related Compound A	O=C(P([O-])([O-])=O)OCC.[Na+].[Na+]	impurity	DCTI-C-1410	sodium (ethoxycarbonyl)phosphonate	NA	Foscarnet Impurity A	C3H7O5P (Free base) C3H5Na2O5P (Sodium Salt)	154.06 (Free base) 198.02 (Sodium Salt)
1302		Foscarnet Related compound B	CCOP(C([O-])=O)([O-])=O.[Na+].[Na+]	Impurity	DCTI-C-2261	sodium (ethoxyoxidophosphoryl)formate	NA	1-Ethoxy-1-hydroxyphosphinecarboxylic acid 1-oxide disodium salt, Foscarnet impurity B	C3H7O5P (free base) C3H5Na2O5P (sodium salt)	154.06 (free base) 198.02 (sodium salt)
1303		Foscarnet Related Compound C	O=C(P(OCC)([O-])=O)OCC.[Na+]	impurity	DCTI-C-1411	sodium ethyl (ethoxycarbonyl)phosphonate	NA	Foscarnet Impurity C	C5H11O5P (Free base) C5H10NaO5P (Sodium Salt)	182.11 (Free base) 204.09 (Sodium Salt)
1304		Fosfomycin EP impurity D	NC(CO)(CO)COC(C)C(O)P(OC(C)C(O)P(O)(O)=O)(O)=O	Impurity	DCTI-C-869	(2-(((2-(2-amino-3-hydroxy-2-(hydroxymethyl)propoxy)-1-hydroxypropyl)(hydroxy) phosphoryl)oxy)-1-hydroxypropyl)phosphonic acid	1262243-12-8	NA	C10H25NO11P2	397.25

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1305	Fosfomycin	Fosfomycin EP Impurity-C	OCC(N)(COP(O)(O)=O)CO	impurity	DCTI-C-2038	2-amino-3-hydroxy-2-(hydroxymethyl)propyl dihydrogen phosphate	23001-39-0	1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, mono(dihydrogen phosphate) (ester) (8CI); 2-Amino-3-hydrox-2-(hydroxymethyl)propyl dihydrogen phosphate Tris-phosphate; [2-Amino-3-hydroxy-2-	C4H12NO6P	201.11
1306		Fosfomycin EP Impurity-A Tromethamine Salt	CC(O)C(P(O)(O)=O)O.OCC(CO)([.NH2])CO	impurity	DCTI-C-2039	2-amino-2-(hydroxymethyl)propane-1,3-diol (1,2-dihydroxypropyl)phosphonate	NA	Phosphonic acid, (1,2-dihydroxypropyl)- (9CI); P-(1,2-Dihydroxypropyl)phosphonic acid; (1,2-Dihydroxypropyl)phosphonic acid, Fosfomycin trometamol EP impurity A	C3H9O5P (Free Base) C7H20NO8P (Salt)	156.07 (Free Base) 277.21 (Salt)
1307		Fosfomycin Tromethamine Adduct (Imp-B)	CC(C(O)P(O)(O)=O)OCC(N)(CO)CO	Impurity	DCTI-C-871	(2-(2-amino-3-hydroxy-2-(hydroxymethyl)propoxy)-1-hydroxypropyl)phosphonic acid	1262243-11-7	Fosfomycin EP impurity B	C7H18NO7P	259.19
1308	Frovatriptan	1-(R)-Hydroxy Frovatriptan	O=C(C1=CC(C2=C([C@H](O)C[C@@H](NC)C2)N3)=C3C=C1)N	Impurity	DCTI-C-067	(1R,3S)-1-hydroxy-3-(methylamino)-2,3,4,9-tetrahydro-1H-carbazole-6-carboxamide	NA	Frovatriptan Impurity 1	$C14H17N_3O_2$	259.31
1309		1-(S)-Hydroxy Frovatriptan	O=C(C1=CC(C2=C([C@@H](O)C[C@@H](NC)C2)N3)=C3C=C1)N	Impurity	DCTI-C-068	(1S,3S)-1-hydroxy-3-(methylamino)-2,3,4,9-tetrahydro-1H-carbazole-6-carboxamide	NA	Frovatriptan Impurity 2	$C_{14}H_{17}N_3O_2$	259.31
1310		Frovatriptan Nitroso Impurity	CNC(C1)CCC2=C1C3=CC(C(N)=O)=CC=C3N2N=O	NDSRI	DCTI-C-3066	3-(methylamino)-9-nitroso-2,3,4,9-tetrahydro-1H-carbazole-6-carboxamide	NA	NA	C14H16N4O2	272.31
1311		9-acetyl-3-(methylamino)-2,3,4,9-tetrahydro-1H-carbazole-6-carboxamide hydrochloride (Frovatriptan)	CNC(C1)CCC2=C1C3=CC(C(N)=O)=CC=C3N2C(C)=O.Cl	Impurity	DCTI-C-3056	9-acetyl-3-(methylamino)-2,3,4,9-tetrahydro-1H-carbazole-6-carboxamide hydrochloride	NA	Frovatriptan Acetyl Impurity	C16H20ClN3O2(HCl Salt)C16H19N3O2(Free Base)	321.80(HCl Salt)285.35(Free Base)

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1312		6-hydroxy-9H-carbazole-3-carboxamide	O=C(C1=CC2=C(C=C1)NC3=C2C=C(O)C=C3)N	Impurity	DCTI-C-3546	6-hydroxy-9H-carbazole-3-carboxamide	NA	NA	C13H10N2O2 (Free base)	226.24 (Free base)
1313	Fruquintinib	CMB Impurity	O=C(C1=C(C)OC2=CC(OC3=C4C=C(OC)C(Cl)=CC4=NC=N3)=CC=C12)NC	Impurity	DCTI-C-3723	6-((7-chloro-6-methoxyquinazolin-4-yl)oxy)-N,2-dimethylbenzofuran-3-carboxamide	NA	NA	C20H16ClN3O4	397.82
1314	**Fulvestrant**	Fulvestrant S enantiomer	OC1=CC=C2[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])[C@H](CCCCCCCCC[S@@](CCCC(F)(F)C(F)(F)F)=O)CC2=C1	Impurity	DCTI-C-2288	(7R,8R,9S,13S,14S,17S)-13-methyl-7-(9-((S)-(4,4,5,5,5-pentafluoropentyl)sulfinyl)nonyl)-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	1316849-17-8	(7R,8R,9S,13S,14S,17S)-13-methyl-7-[9-(4,4,5,5,5-pentafluoropentylsulfinyl)nonyl]-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta[a]phenanthrene-3,17-diol	C32H47F5O3S	606.78
1315		Fulvestrant R enantiomer	OC1=CC=C2[C@@]3([H])CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])[C@H](CCCCCCCCC[S@](CCCC(F)(F)C(F)(F)F)=O)CC2=C1	Impurity	DCTI-C-2289	(7R,8R,9S,13S,14S,17S)-13-methyl-7-(9-((R)-(4,4,5,5,5-pentafluoropentyl)sulfinyl)nonyl)-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol	1807900-80-6	(7R,8R,9S,13S,14S,17S)-13-methyl-7-[9-(4,4,5,5,5-pentafluoropentylsulfinyl)nonyl]-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta[a]phenanthrene-3,17-diol	C32H47F5O3S	606.78
1316		Fulvestrant Related Impurity	C[C@]12CC[C@]3([H])C4=CC=C(C=C4C[C@H]([C@@]3([H])[C@]1([H])CC[C@@H]2O)CCCCCCCCCS(CCCC(F)(C(F)(F)F)F)=O)OC(N5CCC(CC5)=O)=O	Impurity	DCTI-C-2568	(7R,8R,9S,13S,14S,17S)-17-hydroxy-13-methyl-7-(9-((4,4,5,5,5-pentafluoropentyl)sulfinyl)nonyl)-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-3-yl 4-oxopiperidine-1-carboxylate	NA	NA	C38H54F5NO5S	731.9
1317	**Furfural Derivative**	Bis(1,5-hydroxymethylfuran)octa-decyleste	CCCCCCCCCCCCCCCCCC(OCC1=CC=C(COC(CCCCCCCCCCCCCCCC)=O)O1)=O	IMPURITY	DCTI-C-2698	furan-2,5-diylbis(methylene) distearate	1335042-56-2	NA	C42H76O5	661.07
1318	**Furosemide**	Furosemide-β-D-glucuronide	O=C(OC1OC(C(O)=O)C(O)C(O)C1O)C2=CC(S(=O)(N)=O)=C(Cl)C=C2NCC3=CC=CO3	Metabolite	DCTI-A-217	6-((4-chloro-2-((furan-2-ylmethyl)amino)-5-sulfamoylbenzoyl)oxy)-3,4,5-trihydroxytetrahydro-2H-pyran-2-carboxylic acid	72967-59-0	NA	C18H19ClN2O11S	506.86
1319		NDSRI of Furosemide impurity A	O=C(O)C1=C(Cl)C=C(N(N=O)CC2=CC=CO2)C(S(=O)(N)=O)=C1	NDSRI	DCTI-C-3792	2-chloro-4-((furan-2-ylmethyl)(nitroso)amino)-5-sulfamoylbenzoic acid	NA	NA	C12H10ClN3O6S	359.73

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1320	Ganciclovir	Ganciclovir related compound A	O=C1C2=C(N(COCC(O)CO)C=N2)N=C(N)N1.Cl	impurity	DCTI-C-1291	2-amino-9-((2,3-dihydroxypropoxy)methyl)-1,9-dihydro-6H-purin-6-one hydrochloride	86357-09-7	Iso Ganciclovir; Ganciclovir EP Impurity E	C9H14ClN5O4 (HCl Salt) C9H13N5O4 (Free Amine)	291.69 (HCl Salt) 255.23 (Free Amine)
1321		Ganciclovir Divalinate	O=C1N=C(N)NC2=C1N=CN2COC(COC([C@@H](N)C(C)C)=O)COC([C@@H](N)C(C)C)=O.O=CC(F)(F)F	impurity	DCTI-C-1086	2-((2-amino-6-oxo-3,6-dihydro-9H-purin-9-yl)methoxy)propane-1,3-diyl (2S,2'S)-bis(2-amino-3-methylbutanoate) ,trifluoroacetic acid(1:1)	NA	Ganciclovir Bisvaline Ester.DiTFA	C21H32F3N7O8 (TFA Salt) C19H31N7O6 (Freebase)	567.52 (TFA Salt) 453.50 (Freebase)
1322		Ganciclovir Mono N-Methyl Valinate (Mixture of Diastereomers)	O=C1N=C(N)NC2=C1N=CN2COC(COC([C@@H](NC)C(C)C)=O)CO.O=CC(F)(F)F	impurity	DCTI-C-1087	2-((2-amino-6-oxo-3,6-dihydro-9H-purin-9-yl)methoxy)-3-hydroxypropyl methyl-L-valinate ,Trifluoroacetic acid(1:1)	NA	Ganciclovir Impurity 1 TFA (Mixture of Diastereomers)	C17H25F3N6O7 (TFA Salt) C15H24N6O5 (Freebase)	482.42 (TFA Salt) 368.39 (Freebase)
1323		Ganciclovir dimer	O=C1C2=C(N(COC(CO)CO)C=N2)N=C(NCNC(N3)=NC(N(COC(CO)CO)C=N4)=C4C3=O)N1	impurity	DCTI-C-1104	2,2'-(methylenebis(azanediyl))bis(9-(((1,3-dihydroxypropan-2-yl)oxy)methyl)-1,9-dihydro-6H-purin-6-one)	Na	Ganciclovir dimer	C19H26N10O8	522.48
1324		Gefitinib Impurity 9	COC1=C(OCCCN2CCOCC2)C=C3C(N=CN(C4=CC=C(F)C(Cl)=C4)C3=O)=C1	Impurity	DCTI-C-308	3-(3-chloro-4-fluorophenyl)-7-methoxy-6-(3-morpholinopropoxy)quinazolin-4(3H)-one	1608115-59-8	NA	C22H23ClFN3O4	447.89
1325		Gefitinib Impurity 8	COC1=C(OC(C)=O)C=C2C(N=CN(C3=CC=C(F)C(Cl)=C3)C2=O)=C1	Impurity	DCTI-C-309	3-(3-chloro-4-fluorophenyl)-7-methoxy-4-oxo-3,4-dihydroquinazolin-6-yl acetate	NA	NA	C17H12ClFN2O4	362.74

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1326	Gefitinib	4-(3-bromopropyl)morpholine hydrochloride	BrCCCN1CCOCC1.Cl	Impurity	DCTI-C-310	4-(3-bromopropyl)morpholine hydrochloride	134187-43-2	NA	C7H15BrClNO (HCl Salt) C7H14BrNO (Free bas)	244.56 (HCl Salt) 208.10 (Free base)
1327		3-(3-chloro-4-fluorophenyl)-6-hydroxy-7-methoxyquinazolin-4(3H)-one	COC1=C(O)C=C2C(N=CN(C3=CC=C(F)C(Cl)=C3)C2=O)=C1	Impurity	DCTI-C-355	3-(3-chloro-4-fluorophenyl)-6-hydroxy-7-methoxyquinazolin-4(3H)-one	NA	Gefitinib Impurity	C15H10ClFN2O3	320.7
1328		Gefitinib Morpholine N-oxide	[O-][N+]1(CCCOC2=CC3=C(NC4=CC=C(F)C(Cl)=C4)N=CN=C3C=C2OC)CCOCC1	MDCTI-C-1480	DCTI-C-356	4-(3-((4-((3-chloro-4-fluorophenyl)amino)-7-methoxyquinazolin-6-yl)oxy)propyl)morpholine 4-oxide	847949-51-3	NA	C22H24ClFN4O4	462.91
1329		Gefitinib impurity 4	O=C1NC=NC2=CC(OC)=C(O)C=C21	Impurity	DCTI-C-357	6-hydroxy-7-methoxyquinazolin-4(3H)-one	179688-52-9	Gefitinib impurity 4	C9H8N2O3	192.17
1330		Gefitinib impurity VII	O=C1NC=NC2=CC(OC)=C(OC(C)=O)C=C21	Impurity	DCTI-C-358	7-methoxy-4-oxo-3,4-dihydroquinazolin-6-yl acetate	179688-53-0	Gefitinib impurity VII	C11H10N2O4	234.21
1331		O-Desmethyl Gefitinib	OC1=C(OCCCN2CCOCC2)C=C3C(N=CN=C3NC4=CC(Cl)=C(F)C=C4)=C1	MEtabolite	DCTI-C-359	4-((3-chloro-4-fluorophenyl)amino)-6-(3-morpholinopropoxy)quinazolin-7-ol	847949-49-9	M523595	C21H22ClFN4O3	432.88
1332		Gefitinib EP Impurity B	COC1=C(OCCCN2CCOCC2)C=C3C(N=CN=C3NC4=CC(F)=C(Cl)C=C4)=C1	Impurity	DCTI-C-381	N-(4-chloro-3-fluorophenyl)-7-methoxy-6-(3-morpholinopropoxy)quinazolin-4-amine	NA	NA	C22H24ClFN4O3	446.91

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1333		7-methoxy-6-(3-morpholinopropoxy) quinazolin-4(3H)-one	COC1=C(OCCCN2CCOCC2)C=C3C(N=CNC3=O)=C1	Impurity	DCTI-C-577	7-methoxy-6-(3-morpholinopropoxy)quinazolin-4(3H)-one	199327-61-2	Gefitinib Impurity	C16H21N3O4	319.36
1334		Gefitinib Impurity 13	COC1=C(OCCCN2CCOCC2)C=C3C(N=CN=C3NC4=CC=C(F)C=C4)=C1	Impurity	DCTI-C-578	N-(4-fluorophenyl)-7-methoxy-6-(3-morpholinopropoxy)quinazolin-4-amine	2254241-82-0	Gefitinib Impurity	C22H25FN4O3	412.47
1335		Gefitinib 3,4-Difluoro Impurity	COC1=C(OCCCN2CCOCC2)C=C3C(N=CN=C3NC4=CC(F)=C(F)C=C4)=C1	impurity	DCTI-C-1161	N-(3,4-difluorophenyl)-7-methoxy-6-(3-morpholinopropoxy)quinazolin-4-amine	184475-50-1	Gefitinib Impurity, 3,4-Difluoro Gefitinib	C22H24F2N4O3	430.46
1336		1,3-Dimorpholinopropane / 4,4'-(propane-1,3-diyl)bismorpholine (Gefitinib)	N1(CCCN2CCOCC2)CCOCC1	impurity	DCTI-C-1147	1,3-dimorpholinopropane	48152-09-6	NA	C11H22N2O2	214.31
1337	**Gemifloxacin**	Gemifloxacin-E-isomer	FC1=C(N2C/C(C(CN)C2)=N/OC)N=C(N(C3CC3)C=C(C(O)=O)C4=O)C4=C1.CS(=O)(O)=O	impurity	DCTI-C-1226	(E)-7-(3-(aminomethyl)-4-(methoxyimino)pyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid methanesulfonic acid	210353-54-1 (Free base)	Factive; Floxguard; Gemifloxacin mesylate; LB 20304a; SB 265805S	C18H20FN5O4 (Free Base)	389.38 (Free Base)
1338	**Gemcitabine**	1'-Epi Gemcitabine	O=C1N([C@H]2O[C@H](CO)[C@@H](O)C2(F)F)C=CC(N)=N1	impurity	DCTI-C-1949	4-amino-1-((2S,4R,5R)-3,3-difluoro-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-2(1H)-one	NA	α-gemcitabine, 4-Amino-1-(2-deoxy-2,2-difluoro-α-D-erythro-pentofuranosyl)-2(1H)-pyrimidinone.	C9H11F2N3O4	263.2
1339		Gimeracil Impurity 16	OC1=CC(O)=[N+]([O-])C=C1Cl	impurity	DCTI-C-959	5-chloro-2,4-dihydroxypyridine 1-oxide	NA	Gimeracil N-Oxide	C5H4ClNO3	162

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1340	**Gimeracil**	5-Chloro-4-methoxy-2(1H)-pyridinone / Gimeracil Impurity 7	O=C1NC=C(Cl)C(OC)=C1	impurity	DCTI-C-960	5-chloro-4-methoxypyridin-2(1H)-one	1227600-22-7	Gimeracil Impurity 7	C6H6ClNO2	159.57
1341		Gimeracil Impurity 3	NC(NC(NC(C(O)=O)=O)=O)=O	impurity	DCTI-C-1065	2-(3-carbamoylureido)-2-oxoacetic acid	NA	NA	C4H5N3O5	175.1
1342	**Glimepiride**	Cis Isomer of MCI-Glimepiride	C[C@H]1CC[C@@H](N=C=O)CC1	Impurity	DCTI-C-757	(1s,4s)-1-isocyanato-4-methylcyclohexane	NA	NA	C8H13NO	139.2
1343		Cyclohexyl carboxyl glimepiride	O=C(N1C(C(CC)=C(C)C1)=O)NCCC2=CC=C(S(=O)(NC(N[C@H]3CC[C@H](C(O)=O)CC3)=O)=O)C=C2	MEtabolite	DCTI-C-1480	(1r,4r)-4-(3-((4-(2-(3-ethyl-4-methyl-2-oxo-2,5-dihydro-1H-pyrrole-1-carboxamido) ethyl)phenyl)sulfonyl)ureido)cyclohexane-1-carboxylic acid	NA	trans-Carboxylic Acid Glimepiride	C24H32N4O7S	520.6
1344		Trans-hydroxy Glimepiride	O=S(C1=CC=C(CCNC(N2CC(C)=C(CC)C2=O)=O)C=C1)(NC(N[C@H]3CC[C@H](CO)CC3)=O)=O	Metabolite	DCTI-C-1199	3-ethyl-N-(4-(N-(((1r,4r)-4-(hydroxymethyl)cyclohexyl)carbamoyl)sulfamoyl)phenethyl)-4-methyl-2-oxo-2,5-dihydro-1H-pyrrole-1-carboxamide	600177-94-4	NA	C24H34N4O6S	506.62
1345		Glimepiride Related Compound C	O=C(OC)NS(=O)(C1=CC=C(CCNC(N2C(C(CC)=C(C)C2)=O)=O)C=C1)=O	Impurity	DCTI-C-2889	methyl ((4-(2-(3-ethyl-4-methyl-2-oxo-2,5-dihydro-1H-pyrrole-1-carboxamido)ethyl)phenyl)sulfonyl)carbamate	119018-30-3	Glimepiride Carbamate; Glimepiride Impurity C;Glimepiride urethane; Glimepiride ep impurity C.	C18H23N3O6S	409.46
1346	**Granisetron**	7-Methoxy Granisetran	O=C(N[C@H]1[C@H]2CCC[C@H](N2C)C1)C3=NN(C)C4=C(OC)C=CC=C43	Impurity	DCTI-C-066	7-methoxy-1-methyl-N-((1S,5R,6R)-8-methyl-8-azabicyclo[3.2.1]octan-6-yl)-1H-indazole-3-carboxamide	NA	NA	C18H24N4O2	328.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1347	Glycopyrronium	Chloro Glycopyrronium Bromide (Imp-I)	ClC1=CC=C(C(C2CCCC2)(C(OC3CC[N+](C)(C)C3)=O)O)C=C1.[Br-]	Impurity	DCTI-C-680	3-(2-(4-chlorophenyl)-2-cyclopentyl-2-hydroxyacetoxy)-1,1-dimethylpyrrolidin-1-ium bromide	1404453-68-4	Glycopyrronium Bromide Impurity I, Glycopyrronium EP Impurity I	C19H27BrClNO3 (Salt) C19H27ClNO3 (Free base)	432.78 (Salt) 352.88 (Free base)
1348		Glycopyrronium Impurity B	OC(C(C1=CC=CC=C1)=O)=O	impurity	DCTI-C-2040	2-oxo-2-phenylacetic acid	611-73-4	Phenylglyoxylic acid; Benzoylformic acid; Glycopyrronium Bromide EP Impurity B.	C8H6O3	150.13
1349		Glycopyrrolate Related Compound C	OC(C1CCCC1)(C(O)=O)C2=CC=CC=C2	impurity	DCTI-C-2041	2-cyclopentyl-2-hydroxy-2-phenylacetic acid	427-49-6	alpha-Cyclopentylmandelic Acid; USP Glycopyrrolate Related Compound C; Cyclopentylmandelic Acid.	C13H16O3	220.27
1350		Glycopyrrolate EP Impurity L	O=C(OC)C(O)(C1CCCC1)C2=CC=CC=C2	impurity	DCTI-C-1697	methyl 2-cyclopentyl-2-hydroxy-2-phenylacetate	19833-96-6	NSC 93811	C14H18O3	234.30
1351		Dehydro Glycopyrronium Bromide	OC(C1=CCCC1)(C(OC2CC[N+](C)(C)C2)=O)C3=CC=CC=C3.[Br-]	Impurity	DCTI-C-681	3-(2-(cyclopent-1-en-1-yl)-2-hydroxy-2-phenylacetoxy)-1,1-dimethylpyrrolidin-1-ium bromide	NA	NA	C19H26BrNO3 (Salt) C19H26NO3 (Free base)	396.32 (Salt) 316.42 (Free base)
1352	Guaifenesin	EPO Dimer impurity	OC(COC1=CC=CC=C1OC)COC2=CC=CC=C2OC	impurity	DCTI-C-2043	1,3-bis(2-methoxyphenoxy)propan-2-ol	16929-60-5	1,3-Bis(2-methoxyphenoxy)-2-propanol (ACI); 2-Propanol, 1,3-bis(o-methoxyphenoxy)- (6CI, 8CI); NSC 142122; Guaifenesin EP Impurity D.	C17H20O5	304.34
1353		1-(carbamoyloxy)urea	NC(NOC(N)=O)=O	impurity	DCTI-C-2044	1-(carbamoyloxy)urea	4543-62-8	Hydroxy urea impurity; Aminocarbonyl)azanyl carbamic acid	C2H5N3O3	119.09

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1354	**Halobetasol**	Halobetasol Spiro Analog	C[C@@]12[C@](C3=O)(OC(CC)=C3Cl)[C@@H](C)C[C@@]1([H])[C@]4([H])C[C@H](F)C5=CC(C=C[C@]5(C)[C@@]4(F)[C@@H](O)C2)=O	Impurity	DCTI-C-2681	(6S,8S,9R,10S,11S,13S,14S,16S,17R)-4'-chloro-5'-ethyl-6,9-difluoro-11-hydroxy-10,13, 16-trimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3'H-spiro[cyclopenta[a]phenanthrene-17,2'-furan]-3,3'(6H)-dione	912360-04-4	NA	C25H29ClF2O4	466.95
1355	**Hydantoin**	PTH-(e-phenylthiocarbamyl)lysine	S=C1NC(CCCCNC(NC2=CC=CC=C2)=S)C(N1C3=CC=CC=C3)=O	Impurity	DCTI-C-2971	1-(4-(5-oxo-1-phenyl-2-thioxoimidazolidin-4-yl)butyl)-3-phenylthiourea	29635-94-7	PTH-(nepsilon-PTC)-lysine; Phenylthiohydantoin-(nepsilon-phenylthiocarbamyl)-lysine	C20H22N4OS2	398.54
1356	**Hydralazine**	Hydralazine Lactosone Ring-opened adduct	O[C@H]1[C@H]([C@H](O[C@H]([C@@H]1O)OC(C(O)C(C2=NN=C3N2N=CC4=C3C=CC=C4)O)C(CO)O)CO)O	IMPURITY	DCTI-C-3202	1-([1,2,4]triazolo[3,4-a]phthalazin-3-yl)-3-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)pentane-1,2,4,5-tetraol	NA	NA	C20H26N4O10	482.45
1357		Hydrocortisone-20-acid	O[C@]1(C(O)=O)CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])[C@@H](O)C[C@@]21C)=O	impurity	DCTI-C-1481	(8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9, 10,11, 12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-17-carboxylic acid	3597-45-3	(11β,17α)-11,17-Dihydroxy-3-oxoandrost-4-ene-17-carboxylic acid (ACI); Androst-4-ene-17β-carboxylic acid, 11β,17-dihydroxy-3-oxo- (6CI, 7CI, 8CI); 11β,17-Dihydroxy-3-oxo-androst-4-ene-17β-carboxylic acid; 11β,17α-	C20H28O5	348.44
1358		Hydrocortisone 17-Formoxyl Impurity	O=C(CC[C@]12C)C=C2CC[C@]3([H])[C@]1([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC[C@]4(OC([H])=O)C(O)=O	impurity	DCTI-C-2046	(8S,9S,10R,11S,13S,14S,17R)-17-(formyloxy)-11-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-17-carboxylic acid	NA	Hydrocortisone 17β-carboxylicacid-17-O-Formoxyl Impurity; Hydrocortisone 17-Formaxyl Impurity; 17-Formoxyl Impurity.	C21H28O6	376.45
1359		Hydrocortisone EP Impurity K	O[C@]1(C(COC(C)=O)=O)CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])CC[C@@]21C)=O	impurity	DCTI-C-2047	2-((8R,9S,10R,13S,14S,17R)-17-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10, 11,12,13, 14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	640-87-9	REICHSTEIN'S SUBSTANCE S 21-ACETATE; 21-(Acetyloxy)-17-hydroxypregn-4-ene-3,20-di one; 17-hydroxy-3,20-dioxopregn-4-en-21-yl acetate; 17α-Hydroxy-11-deoxycorticosterone 21-	C23H32O5	388.5

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1360	Hydrocortisone	17-Keto Hydroxyprogesteron	C[C@]1([C@](CC2)([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])[C@@H](O)C1)=O)C2=O	impurity	DCTI-C-1752	(8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-1,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-3H-cyclopenta[a]phenanthrene-3,17(2H)-dione	382-44-5	4-Androsten-11β-ol-3,17-dione; 11b-Hydroxy-androst-4-ene-3,17-dione; NSC 12167; NSC 17102; U 2826 11-β-Hydroxy androstenedione	C19H26O3	302.41
1361		Hydrocortisone EP Imp-N (Symmetrical dimer)	C[C@@]12C(CCC3C2[C@@H](O)C[C@@]4(C)C3CC[C@]4(O)C(C(O)C(O)C([C@]5(O)CCC6[C@@]5(C)C[C@@H](O)C7C6CCC([C@@]7(C)CC8)=CC8=O)=O)=O)=CC(CC1)=O	impurity	DCTI-C-1032	1-((10R,11S,13S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)-4-((10S,11R,13R,17S)-11,17-dihydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2,3-dihydroxybutane-1,4-dione	NA	Hydrocortisone symmetrical dimer impurity	C42H58O10	722.92
1362		Hydrocortisone Z-enol aldehyde	C[C@@]1(CC2)[C@]([C@@H](O)C[C@]3(C)/C(CC[C@]34[H])=C(C=O)\O)([H])[C@@]4([H])CCC1=CC2=O	impurity	DCTI-C-1276	(Z)-2-hydroxy-2-((8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-3-oxo-1,2,3,6,7,8,9,10,11,12,13,14,15,16-tetradecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)acetaldehyde	105562-13-8	Hydrocortisone Impurity C; Cortisol Impurity 2	C21H28O4	344.45
1363		Hydrocortisone E-enol aldehyde	C[C@@]1(CC2)[C@]([C@@H](O)C[C@]3(C)/C(CC[C@]34[H])=C(O)\C=O)([H])[C@@]4([H])CCC1=CC2=O	impurity	DCTI-C-1277	(E)-2-hydroxy-2-((8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-3-oxo-1,2,3,6,7,8,9,10,11,12,13,14,15,16-tetradecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)acetaldehyde	105562-12-7	Hydrocortisone Impurity B; Cortisol Impurity 1	C21H28O4	344.45
1364		Hydrocortisone Un-symmetrical dimer	O=C(C(C(O)C([C@@]1(O)CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])[C@@H](O)C[C@@]21C)=O)=O)O)[C@H]5CC[C@@]6([H])[C@]7([H])CCC8=CC(CC[C@]8(C)[C@@]7([H])[C@@H](O)C[C@@]65C)=O	impurity	DCTI-C-1066	1-((8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2,3-dihydroxy-4-((8S,9S,10R,11S,13S,14S,17S)-11-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-	NA	NA	C42H58O9	706.92
1365		Hydrocortisone (9B, 11B - Epoxide)	O[C@]1(C(CO)=O)CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@]35[C@@H](O5)C[C@@]21C)=O	impurity	DCTI-C-1123	(4aS,4bS,5aS,7R,9aS,9bS)-7-hydroxy-7-(2-hydroxyacetyl)-4a,6a-dimethyl-4,4a,5a,6,6a,7,8,9,9a,9b,10,11-dodecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-2(3H)-one	10072-97-6	NA	C21H28O5	360.45
1366		Hydrocortisone glyoxal hydrate isomer-2	O=C1CC[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC[C@@H]4C(C(O)O)=O)=C1	Impurity	DCTI-C-2510	(8S,9S,10R,11S,13S,14S,17S)-17-(2,2-dihydroxyacetyl)-11-hydroxy-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	1960421-03-7	NA	C21H30O5	362.47

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1367		Hydrocortisone EP impurity E	O=C1CC[C@@]2(C)C(C=C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC[C@@]4(C(CO)=O)O)=C1	Impurity	DCTI-C-3567	(8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-1,2,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	600-99-7	6-Dehydrocortisol, Δ6-Hydrocortisone, Δ6-Cortisol	C21H28O5	360.45
1368		6-Dehydrocortisol Acetate	O=C1CC[C@@]2(C)C(C=C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC[C@@]4(C(COC(C)=O)=O)O)=C1	Impurity	DCTI-C-3583	2-((8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-2,3,8,9,10,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	21940-45-4	NA	C23H30O6	402.49
1369		Hydrocortisone-11β-formate	O=C1CC[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](OC([H])=O)C[C@@]4(C)[C@@]3([H])CC[C@@]4(C(CO)=O)O)=C1	Impurity	DCTI-C-3623	(8S,9S,10R,11S,13S,14S,17R)-17-hydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-11-yl formate	NA	Hydrocortisone-11β-formate(Mixture of isomers)	C22H30O6	390.48
1370		Anecortave acetate	O=C1CC[C@@]2(C)C(CC[C@]3([H])C2=CC[C@@]4(C)[C@@]3([H])CC[C@@]4(C(COC(C)=O)=O)O)=C1	Impurity	DCTI-C-3629	2-((8S,10S,13S,14S,17R)-17-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,10,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	7753-60-8	Hydrocortisone Acetate EP Impurity E	C23H30O5	386.49
1371	**Hydrochlorothiazide**	Hydroxy Impurity	ClC1=C(S(=O)(O)=O)C=C(S(=O)(N)=O)C(N)=C1	impurity	DCTI-C-2045	4-amino-2-chloro-5-sulfamoylbenzenesulfonic acid	17277-91-7	Sulfanilic acid, 2-chloro-5-sulfamoyl- (8CI);4-Amino-5-(aminosulfonyl) -2-chlorobenzenesulfonic acid;Hydrochlorothiazide Hydroxy Impurity.	C6H7ClN2O5S2	286.7
1372		Desethyl Hydroxychloroquine (DHCQ)	CC(NC1=CC=NC2=CC(Cl)=CC=C12)CCCNCCO	Metabolite	DCTI-C-018	2-((4-((7-chloroquinolin-4-yl)amino)pentyl)amino)ethan-1-ol	4298-15-1	NA	C16H22ClN3O	307.82
1373		Bis-Desethyl chlorquine	ClC1=CC=C2C(N=CC=C2NC(CCCN)C)=C1	Metabolite	DCTI-C-069	N4-(7-chloroquinolin-4-yl)pentane-1,4-diamine	4298-14-0	NA	C14H18ClN3	263.77
1374		Des ethyl chloroquine	ClC1=CC=C2C(N=CC=C2NC(CCCNCC)C)=C1	MEtabolite	DCTI-C-070	N4-(7-chloroquinolin-4-yl)-N1-ethylpentane-1,4-diamine	1476-52-4	NA	C16H22ClN3	291.82
1375		Chloroquine N-Oxide	CC(NC1=CC=NC2=CC(Cl)=CC=C12)CCCN(CC)(CC)=O	impurity	DCTI-C-1800	4-((7-chloroquinolin-4-yl)amino)-N,N-diethylpentan-1-amine oxide	NA	NA	C18H26ClN3O	335.88

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1376	Hydroxychloroquine	Hydroxychloroquine Impurity-E	OCCCC(NC1=CC=NC2=CC(Cl)=CC=C12)C	Impurity	DCTI-C-903	4-((7-chloroquinolin-4-yl)amino)pentan-1-ol	10500-64-8	Hydroxychloroquine EP impurity E	C14H17ClN2O	264.75
1377		Hydroxychloroquine Impurity-F	ClC1=CC=C2C(C=CC=C2N3C(C)CCC3)=N1.Cl	Impurity	DCTI-C-904	2-chloro-5-(2-methylpyrrolidin-1-yl)quinoline hydrochloride	6281-58-9 (Freebase)	NA	C14H15ClN2 (Free base) C14H16Cl2N2 (Salt)	246.74(Free base) 289.19 (Salt)
1378		Hydroxychloroquine Impurity-4	CC(NC1=CC=NC2=CC(Cl)=CC=C12)CCCN(CCOC(C)=O)CC	impurity	DCTI-C-1033	2-((4-((7-chloroquinolin-4-yl)amino)pentyl)(ethyl)amino)ethyl acetate	47493-14-1	NA	C20H28ClN3O2	377.91
1379		Hydroxychloroquine Impurity-G	ClC1=CC=CC2=NC(Cl)=CC=C21	Impurity	DCTI-C-905	2,5-dichloroquinoline	59412-12-3	NA	C9H5Cl2N	198.05
1380		Hydroxychloroquine Sulfate EP Impurity B	CC(NC1=CC=NC2=CC(Cl)=CC=C12)CCCN(CCOS(O)(=O)=O)CC	impurity	DCTI-C-1068	2-((4-((7-chloroquinolin-4-yl)amino)pentyl)(ethyl)amino)ethyl hydrogen sulphate	103152-84-7	NA	C18H26ClN3O4S	415.93
1381		Hydroxychloroquine Impurity-1	CC(NC1=CC=NC2=CC(Cl)=CC=C12)CCCN(C3=C(C=CC(Cl)=C4)C4=NC=C3)CC	impurity	DCTI-C-1091	N1,N4-bis(7-chloroquinolin-4-yl)-N1-ethylpentane-1,4-diamine	NA	NA	C25H26Cl2N4	453.41
1382		Ibrutinib methoxy impurity	NC(N=CN=C12)=C2C(C3=CC=C(C=C3)OC4=CC=CC=C4)=NN1[C@@H](C5)CCCN5C(CCOC)=O	Impurity	DCTI-C-360	(R)-1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)-3-methoxypropan-1-one	2031255-26-0	Ibrutinib Impurity 15	C26H28N6O3	472.55

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1383		4-Hydroxy Ibrutinib	NC1=C2C(N([C@@H]3CCCN(C(C=C)=O)C3)N=C2C4=CC=C(OC5=CC=C(O)C=C5)C=C4)=NC=N1	MEtabolite	DCTI-C-1885	(R)-1-(3-(4-amino-3-(4-(4-hydroxyphenoxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one	NA	Ibrutinib M35 metabolite	C25 H24 N6 O3	456.5
1384		IBR Diamine Impurity	O=C(CCN1C[C@H](N2N=C(C3=CC=C(OC4=CC=CC=C4)C=C3)C5=C(N)N=CN=C52)CCC1)N6C[C@H](N7N=C(C8=CC=C(OC9=CC=CC=C9)C=C8)C%10=C(N)N=CN=C%107)CCC6	Impurity	DCTI-C-512	1,3-bis((R)-3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)propan-1-one	1987905-93-0	Ibrutinib Impurity-6	C47H46N12O3	826.97
1385		IBR Dimer IMPURITY-1	O=C(N1C[C@H](N2N=C(C3=CC=C(OC4=CC=CC=C4)C=C3)C5=C(N)N=CN=C52)CCC1)CCNC(N=CN=C67)=C7C(C8=CC=C(C=C8)OC9=CC=CC=C9)=NN6[C@@H](C%10)CCCN%10C(C=C)=O	Impurity	DCTI-C-519	1-((R)-3-(4-((3-((R)-3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)-3-oxopropyl)amino)-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one	2031255-23-7	NA	C50H48N12O4	881.01

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1386	Ibrutinib	IBR Dimer Impurity-3	NC1=C2C(N([C@@H]3CCCN(C(CCN4N=C(C5=CC=C(OC6=CC=CC=C6)C=C5)C7=C4N=CN=C7N)=O)C3)N=C2C8=CC=C(OC9=CC=CC=C9)C=C8)=NC=N1	Impurity	DCTI-C-531	(R)-3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)propan-1-one	NA	NA	C42H37N11O3	743.83
1387		(R)-1-(1-acryloylpiperidin-3-yl)-3-(4-phenoxyphenyl)-1,5-dihydro-4H-pyrazolo[3,4-d]pyrimidin-4-one	O=C1C2=C(N([C@@H]3CCCN(C(C=C)=O)C3)N=C2C4=CC=C(OC5=CC=CC=C5)C=C4)N=CN1	Impurity	DCTI-C-609	(R)-1-(1-acryloylpiperidin-3-yl)-3-(4-phenoxyphenyl)-1,5-dihydro-4H-pyrazolo[3,4-d]pyrimidin-4-one	2031255-24-8	NA	C25H23N5O3	441.49
1388		3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine	NC1=NC=NC2=C1C(C(C=C3)=CC=C3OC4=CC=CC=C4)=NN2	Impurity	DCTI-C-790	3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine	330786-24-8	NA	C17H13N5O	303.33
1389		Ibrutinib acetyl impurity	NC1=NC=NC2=C1C(C(C=C3)=CC=C3OC4=CC=CC=C4)=NN2[C@H]5CN(C(C)=O)CCC5	Impurity	DCTI-C-791	(R)-1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)ethan-1-one	1288338-95-3	NA	C24H24N6O2	428.5

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1390		Ibrutinib chloro impurity	NC1=NC=NC2=C1C(C(C=C3)=CC=C3OC4=CC=CC=C4)=NN2[C@H]5CN(C(CCCl)=O)CCC5	Impurity	DCTI-C-792	(R)-1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)-3-chloropropan-1-one	1288338-96-4	Ibrutinib Impurity 5	C25H25ClN6O2	476.97
1391		IBT6A adduct	C1(OC2=CC=C(C3=NN([C@H]4CNCCC4)C5=C3C(N=P(C6=CC=CC=C6)(C7=CC=CC=C7)C8=CC=CC=C8)=NC=N5)C=C2)=CC=CC=C1	Impurity	DCTI-C-817	(R)-N-(3-(4-phenoxyphenyl)-1-(piperidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-1,1,1-triphenyl-l5-phosphanimine	2064175-43-3	NA	C40H35N6OP	646.73
1392		IBT7A adduct	O=C(C=C)N(CCC1)C[C@@H]1N(C2=C3C(N=P(C4=CC=CC=C4)(C5=CC=CC=C5)C6=CC=CC=C6)=NC=N2)N=C3C(C=C7)=CC=C7OC8=CC=CC=C8	Impurity	DCTI-C-818	(R)-1-(3-(3-(4-phenoxyphenyl)-4-((triphenyl-l5-phosphaneylidene)amino)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one	2064175-44-4	NA	C43H37N6O2P	700.78
1393		(S)-Ibrutinib	C=CC(N1CCC[C@H](N2C3=C(C(N)=NC=N3)C(C4=CC=C(OC5=CC=CC=C5)C=C4)=N2)C1)=O	impurity	DCTI-C-953	(S)-1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one	936563-97-2	Ibrutinib Enantiomer; 1-[(3S)-3-[4-Amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl]-1-piperidinyl]-2-propen-1-one; 1-[(3S)-3-[4-Amino-3-(4-phenoxyphenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidin-1-yl]prop-2-en-1-one	C25H24N6O2	440.5

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1394		Ibrutinib amine impurity	NC1=C2C(N([C@H]3CNCCC3)N=C2C4=CC=C(OC5=CC=CC=C5)C=C4)=NC=N1.Cl	Impurity	DCTI-C-2685	(R)-3-(4-phenoxyphenyl)-1-(piperidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine hydrochloride	1553977-42-6	NA	C22H23ClN6O (salt); C22H22N6O (free base)	422.92 (salt); 386.46 (free base)
1395		Methyl (R)-3-((1-(1acryloylpiperidin-3-yl)-3-(4phenoxyphenyl)-1Hpyrazolo[3,4-d]pyrimidin-4-yl)amino)propanoate(Ibrutinib)	O=C(OC)CCNC1=C2C(N([C@H]3CN(C(C=C)=O)CCC3)N=C2C4=CC=C(OC5=CC=CC=C5)C=C4)=NC=N1	IMPURITY	DCTI-C-2713	methyl (R)-3-((1-(1-acryloylpiperidin-3-yl)-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl)amino)propanoate	NA	Ibrutinib Methyl ester impurity	C29H30N6O4	526.6
1396		Ibrutinib Metabolite-PCI-45227	NC1=C2C(N([C@H]3CN(C(C(CO)O)=O)CCC3)N=C2C4=CC=C(OC5=CC=CC=C5)C=C4)=NC=N1	Metabolite	DCTI-A-066	1-((R)-3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)-2,3-dihydroxypropan-1-one	1654820-87-7	Dihydrodio Ibrutinib	C25H26N6O4	474.51
1397		Ibuprofen Unknown impurity, RRT 0.68	CC(C1=CC=C(C(C(C)C)=O)C=C1)=O	Impurity	DCTI-C-691	1-(4-acetylphenyl)-2-methylpropan-1-one	103931-20-0	NA	C12H14O2	190.24
1398		3-Hydroxy-2,2-dimethylpropyl 2-(4-isobutylphenyl)propanoate	CC(C)CC1=CC=C(C(C)C(OCC(C)(CO)C)=O)C=C1	Impurity	DCTI-C-1666	3-hydroxy-2,2-dimethylpropyl 2-(4-isobutylphenyl)propanoate	126176-61-2	Ibuprofen Related Impurity	C18H28O3	292.42
1399		Ibuprofen and Acetaminophen SGC RS Unknown Impurity	CC(C)CC1=CC=C(C(C(OCC(CO)O)=O)C)C=C1	impurity	DCTI-C-2229	2,3-dihydroxypropyl 2-(4-isobutylphenyl) propanoate	NA	NA	C16H24O4	280.36

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1400		2-[4-(Propan-2-yl)phenyl]propanoic acid	CC(C1=CC=C(C(C)C)C=C1)C(O)=O	impurity	DCTI-C-2051	2-hydroxy-2-(4-isobutylphenyl)propanoic acid	3585-48-6	Hydratropic acid, p-isopropyl- (8CI):α-Methyl-4-(1-methylethyl)benzeneacetic acid (ACI):2-(4-Isopropylphenyl)propanoic acid:p-Isopropylhydratropic acid.	C12H16O2	192.26
1401		4-(1-Hydroxyethyl)benzaldehyde	CC(O)C1=CC=C(C([H])=O)C=C1	impurity	DCTI-C-1811	4-(1-Hydroxyethyl)benzaldehyde	NA	Ibuprofen impurity	C9H10O2	150.18
1402		4-Chlorobenzoic acid alpha monoglyceride	O=C(OCC(CO)O)C1=CC=C(Cl)C=C1	impurity	DCTI-C-1812	2,3-dihydroxypropyl 4-chlorobenzoate	NA	4-Chlorobenzoic acid 2,3-dihydroxy-propyl ester	C10H11ClO4	230.64
1403		Ibuprofen Impurity-M	CC(C)CC1=CC=C(C(C)(O)C(O)=O)C=C1	Impurity	DCTI-C-1742	2-hydroxy-2-(4-isobutylphenyl)propanoic acid	60057-62-7	Ibuprofen EP Impurity M; rac α-Hydroxy Ibuprofen	C13H18O3	222.28
1404		Methyl 4-(1-hydroxyethyl)benzoate	CC(O)C1=CC=C(C(OC)=O)C=C1	Impurity	DCTI-C-1482	methyl 4-(1-hydroxyethyl)benzoate	84851-56-9	Methyl 4-(1-hydroxyethyl)benzoate, Ibuprofen impurity	C10H12O3	180.2
1405		Isopropyl 4-acetylbenzoate (Ibuprofen Impurity)	CC(C1=CC=C(C(OC(C)C)=O)C=C1)=O	Impurity	DCTI-C-740	isopropyl 4-acetylbenzoate	220089-22-5	NA	C12H14O3	206.24
1406		Ibuprofen unknown impurity-1	OC(C1=CC=C(CC(O)=O)C=C1)=O	impurity	DCTI-C-1285	4-(carboxymethyl)benzoic acid	501-89-3	Homoterephthalic acid; NSC 2109	C9H8O4	180.16

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1407	Ibuprofen	Ibuprofen unknown impurity-3	CC(C1=CC=C(C(OC)=O)C=C1)=O	impurity	DCTI-C-1286	methyl 4-acetylbenzoate	3609-53-8	NSC 49140	C10H10O3	178.19
1408		4-(1-hydroxyethyl) benzoic acid	CC(O)C1=CC=C(C(O)=O)C=C1	impurity	DCTI-C-1287	4-(1-hydroxyethyl)benzoic acid	97364-15-3	NA	C9H10O3	166.18
1409		4-Acetylbenzaldehyde	CC(C1=CC=C(C([H])=O)C=C1)=O	impurity	DCTI-C-1288	4-acetylbenzaldehyde	3457-45-2	p-Formylacetophenone; 4-Formylacetophenone	C9H8O2	148.16
1410		4-Acetylbenzoic acid	CC(C1=CC=C(C(O)=O)C=C1)=O	impurity	DCTI-C-1289	4-acetylbenzoic acid	586-89-0	p-Acetylbenzoic acid; p-Carboxyacetophenone	C9H8O3	164.16
1411		4-Vinylbenzoic acid	C=CC1=CC=C(C(O)=O)C=C1	impurity	DCTI-C-1290	4-vinylbenzoic acid	1075-49-6	p-Carboxystyrene; p-Vinylbenzoic acid; NSC 176003	C9H8O2	148.16
1412		Ibuprofen Unknown Impurity	CC(C1=CC=C(C(OO)C(C)C)C=C1)=O	Impurity	DCTI-C-765	1-(4-(1-hydroperoxy-2-methylpropyl)phenyl)ethan-1-one	NA	NA	C12H16O3	208.26
1413		Ibuprofen Impurity 7	OC(C(C)C)C1=CC=C(C(C)=O)C=C1	Impurity	DCTI-C-766	1-(4-(1-hydroxy-2-methylpropyl)phenyl)ethan-1-one	1314907-71-5	NA	C12H16O2	192.26
1414		Ibuprofen EP Impurity-D	OC(C(C)C1=CC=C(C)C=C1)=O	Impurity	DCTI-C-1483	2-(p-tolyl)propanoic acid	938-94-3	NA	C10H12O2	164.2

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1415		Ibuprofen Ph.Eur.impurity P	CC(C)CC1=CC=C(C(C)CO)C=C1	Impurity	DCTI-C-1484	2-(4-isobutylphenyl)propan-1-ol	36039-36-8	Ibuprofen Alcohol	C13H20O	192.3
1416		Ibuprofen Ph.Eur.impurity C	CC(C)CC1=CC=C(C(C)C(N)=O)C=C1	Impurity	DCTI-C-1485	2-(4-isobutylphenyl)propanamide	59512-17-3	: rac-Ibuprofen Amide	C13H19NO	205.3
1417		Ibuprofen EP Impurity-A	OC(C(C)C1=CC(CC(C)C)=CC=C1)=O	Impurity	DCTI-C-1486	2-(3-isobutylphenyl)propanoic acid	66622-47-7	α-Methyl-3-(2-methylpropyl)benzeneaceti c Acid; α-(3-Isobutylphenyl)propionic Acid; m-Isobutyl Ibuprofen	C13H18O2	206.29
1418		Ibuprofen EP Impurity-1	OC(C(C)C1=CC=C(/C=C(C)\C)C=C1)=O	Impurity	DCTI-C-1487	2-(4-(2-methylprop-1-en-1-yl)phenyl)propanoic acid	75625-99-9	2-{[4-(2-Methyl-1-propenyl)phenyl]}propionic Acid; Ibuprofen Related Compound-1	Molecular formula C13H16O2	204.12
1419		Ibuprofen 1,3-Butylene Glycol Esters (Mixture of Regio and Stereo isomers)	CC(C)CC1=CC=C(C(C)C(OCCC(O)C)=O)C=C1.CC (C)CC2=CC=C(C(C)C(OC(C)CCO)=O)C=C2	Impurity	DCTI-C-1488	3-hydroxybutyl 2-(4-isobutylphenyl) propanoate and 4-hydroxybutan-2-yl 2-(4-isobutylphenyl)propanoate	NA	NA	C17H26O3	278.39
1420		Ibuprofen 1,2-Propylene Glycol Esters (Mixture of Regio and Stereo isomers)	CC(C)CC1=CC=C(C(C)C(OCC(O)C)=O)C=C1.CC(C)CC2=CC=C(C(C)C(OC(C)CO)=O)C=C2	Impurity	DCTI-C-1489	2-hydroxypropyl 2-(4-isobutylphenyl) propanoate and 1-hydroxypropan-2-yl 2-(4-isobutylphenyl)propanoate	NA	NA	C16H24O3	264.37
1421		Ibuprofen Unknown Impurity	O=C(C(C)C)C1=CC=C(C(C)=O)C=C1	Impurity	DCTI-C-767	1-(4-acetylphenyl)-2-methylpropan-1-one	103931-20-0	NA	C12H14O2	190.24
1422		Ibuprofen , S-isomer	C[C@@H](C1=CC=C(CC(C)C)C=C1)C(O)=O	Labelled Standard	DCTI-A-002	(S)-2-(4-isobutylphenyl)propanoic acid	51146-56-6	NA	C13H18O2	206.29

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1423		Ibuprofen, R-isomer	C[C@H](C1=CC=C(CC(C)C)C=C1)C(O)=O	Labelled Standard	DCTI-A-001	(R)-2-(4-isobutylphenyl)propanoic acid	51146-57-7	NA	C13H18O2	206.29
1424		Ibuprofen 1,2,3-propanetriol esters (mixture of regio and stereo isomers)	CC(C)CC1=CC=C(C(C)C(OC(CO)CO)=O)C=C1.CC(C)CC2=CC=C(C(C)C(OCC(O)CO)=O)C=C2	Impurity	DCTI-C-1565	1,3-dihydroxypropan-2-yl 2-(4-isobutylphenyl)propanoate and 2,3-dihydroxypropyl 2-(4-isobutylphenyl)propanoate	NA	Ibuprofen impurity	$C_{16}H_{24}O_4$	280.36
1425		Ibuprofen impurity-E	O=C(C)C1=CC=C(CC(C)C)C=C1	Impurity	DCTI-C-1566	1-(4-isobutylphenyl)ethan-1-one	38861-78-8	4-Isobutylacetophenone; 1-Acetyl-4-isobutylbenzene; USP Ibuprofen related compound C; Ibuprofen EP impurity E	$C_{12}H_{16}O$	176.26
1426		Ibuprofen Ph. Eur. Impurity G	CC(C)CC1=CC=C2C(C(C3=CC=C(CC(C)C)C=C3)C(O)=O)CCC2C(O)=O)=C1	Impurity	DCTI-C-1567	7-isobutyl-1-(4-isobutylphenyl)-1,2,3,4-tetrahydronaphthalene-1,4-dicarboxylic acid	NA	(1RS,4SR)-7-(2-methylpropyl)-1-[4-(2-methyl-propyl)-phenyl]-1,2,3,4-tetrahydro naphthalene-1,4-daicarboxylic acid, Ibuprofen dimer	$C_{26}HY_{32}O_4$	408.54
1427		Ibuprofen impurity-L	CC(C)C(O)C1=CC=C(C(C)C(O)=O)C=C1	Impurity	DCTI-C-1568	2-(4-(1-hydroxy-2-methylpropyl)phenyl)propanoic acid	53949-53-4	4-(1-Hydroxy-2-methylpropyl)-α-methylbenzeneacetic acid; Ibuprofen EP impurity L	$C_{13}H_{18}O_3$	222.28
1428		Ibuprofen EP impurity-O	CC(CC)C1=CC=C(C(C)C(O)=O)C=C1	Impurity	DCTI-C-1569	2-(4-(sec-butyl)phenyl)propanoic acid	64451-76-9	α-Methyl-4-(1-methylpropyl)-benzenacetic acid; 2-(4-(butan-2-yl)phenyl)propanoic acid; p-sec-buty-hydratropic acid	$C_{13}H_{18}O_2$	206.29
1429		Indomethacin EP Impurity-E	CC1=C(CC(O)=O)C2=CC(OC)=CC=C2N1C(C3=CC=CC(Cl)=C3)=O	Impurity	DCTI-C-1740	2-(1-(3-chlorobenzoyl)-5-methoxy-2-methyl-1H-indol-3-yl)acetic acid	807614-94-4	Indomethacin Impurity E	C19H16ClNO4	357.79

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1430	**Indomethacin**	Indomethacin alpha monoglyceride	CC1=C(CC(OCC(O)CO)=O)C2=CC(OC)=CC=C2N1C(C3=CC=C(Cl)C=C3)=O	Impurity	DCTI-C-1795	2,3-dihydroxypropyl 2-(1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H-indol-3-yl)acetate	NA	Indometacin 1-glycerin ester	C22H22ClNO6	431.87
1431		1-(3-Chlorobenzoyl)-5-methoxy-2-methyl-1H-indole	CC1=CC2=CC(OC)=CC=C2N1C(C3=CC=CC(Cl)=C3)=O	Impurity	DCTI-C-1718	(3-chlorophenyl)(5-methoxy-2-methyl-1H-indol-1-yl)methanone	NA	Indomethacine Related Impurity	C17H14ClNO2	299.75
1432	**Imatinib**	1-(2-methyl-4-nitrophenyl)guanidine	CC1=C(NC(N)=N)C=CC([N+]([O-])=O)=C1	impurity	DCTI-C-2048	1-(2-methyl-4-nitrophenyl)guanidine	796738-72-2	N-(2-Methyl-4-nitrophenyl)guanidine.	C8H10N4O2	194.19
1433		1-(2-methyl-5-nitrophenyl)guanidine Nitrate	CC1=C(NC(N)=N)C=C([N+]([O-])=O)C=C1.[O-][N+](O)=O	impurity	DCTI-C-2049	1-(2-methyl-5-nitrophenyl)guanidine	152460-08-7	N-(2-Methyl-5-nitrophenyl)guanidine Nitrate; 5-Nitro-2-methylphenylguanidine Nitrate; (2-Methyl-5-nitrophenyl)guanidine; 3-Nitro-6-methylphenyl guanidine nitrate.	C8H10N4O2 (Free base) C8H11N5O5 (Nitrate salt)	194.19(Free base) 257.21(Nitrate salt)
1434		N-(2-Methyl-5-nitrophenyl)-N'-Carbamoyl Guanidine	CC1=C(NC(NC(N)=O)=N)C=C([N+]([O-])=O)C=C1	impurity	DCTI-C-2098	N-(2-Methyl-5-nitrophenyl)-N'-Carbamoyl Guanidine.	NA	NA	C9H11N5O3	237.22
1435		1-(2-methyl-3-nitrophenyl)guanidine	N=C(N)NC1=CC=CC([N+]([O-])=O)=C1C	impurity	DCTI-C-2050	1-(2-methyl-3-nitrophenyl)guanidine	870459-88-4	Guanidine, (2-methyl-3-nitrophenyl); Guanidine, N-(2-methyl-3-nitrophenyl).	C8H10N4O2	194.19
1436		N-Desmethyl Imatinib	CC(C=CC(NC(C1=CC=C(CN2CCNCC2)C=C1)=O)=C3)=C3NC4=NC=CC(C5=CN=CC=C5)=N4.Cl	MEtabolite	DCTI-C-172	N-(4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)phenyl)-4-(piperazin-1-ylmethyl)benzamide hydrochloride	404844-02-6	N-Desmethyl Gleevec; CGP-74588; Norimatinib; STI 509-00; Imatinib EP Impurity C	C28H30ClN7O (HCl Salt) C28H29N7O (Free base)	516.05 (HCl Salt) 479.59 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1437		N-nitroso Imatinib	CN1CCN(CC1)CC2=CC=C(C(NC3=CC(N(N=O)C4=NC=CC(C5=CN=CC=C5)=N4)=C(C=C3)C)=O)C=C2	NDSRI	DCTI-C-3745	N-(4-methyl-3-(nitroso(4-(pyridin-3-yl)pyrimidin-2-yl)amino)phenyl)-4-((4-methylpiperazin-1-yl)methyl)benzamide	NA	N-nitroso Imatinib Mixture of isomers	C29H30N8O2	522.61
1438		REDUCED IMP OF 5,6 DIETHYLINDENAMINE HCl	NC1CC2CC(CC)C(CC)CC2C1.Cl	impurity	DCTI-C-954	5,6-diethyloctahydro-1H-inden-2-amine hydrochloride	NA	Indacaterol Reduced impurity	C13H25N C13H26ClN (HCl Salt)	195.34 231.81 (HCl Salt)
1439		Indacaterol Impurity 8	O=C1CCC2=C(N1)C(O)=CC=C2C(O)CNC3CC4=C(C3)C=C(CC)C(CC)=C4.CC(O)=O	impurity	DCTI-C-2052	5-(2-((5,6-diethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)-8-hydroxy-3,4-dihydroquinolin-2(1H)-one acetate	NA	8-Hydroxy-3,4-dihydroquinolin-2-oxo-indacaterol	C24H30N2O3 (free base) C26H34N2O5 (acetate Salt)	394.52(free base) 454.57(acetate Salt)
1440		2,3-dihydro-1H-inden-2-amine hydrochloride	NC1CC2=CC=CC=C2C1.Cl	impurity	DCTI-C-1048	2,3-dihydro-1H-inden-2-amine hydrochloride	2338-18-3	2-Aminoindan Hydrochloride	C9H11N (Free Base) C9H11N.HCl (HCl Salt)	133.19 (Free Base) 169.65 (HCl Salt)
1441		Benzyl Indacaterol Impurity	O=C1C=CC2=C(N1)C(OCC3=CC=CC=C3)=CC=C2[C@@H](O)CNC4CC5=CC(CC)=C(CC)C=C5C4	impurity	DCTI-C-1895	(R)-8-(benzyloxy)-5-(2-((5,6-diethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)quinolin-2(1H)-one	NA	Indacaterol Acetate Impurity B; O-Benzyl Indacaterol	C31H34N2O3	482.62

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1442	Indacaterol	Indacaterol Acetate Impurity A	O=C1C=CC2=C(N1)C(O)=CC=C2C(O)CNC3CC4=CC=C(CC)C=C4C3.CC(O)=O	impurity	DCTI-C-1896	5-(2-((5-ethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)-8-hydroxyquinolin-2(1H)-one acetate	NA	Indacaterol Monoethyl impurity; Indacaterol Impurity 2 ; Monoethyl impurity	C22H24N2O3 (Free base): C24H28N2O5 (Acetate Salt)	364.45 (Free base): 424.50 (acetate Salt)
1443		Indacaterol Acetate S-Isomer	O=C1C=CC2=C(N1)C(O)=CC=C2[C@@H](CNC3CC4=C(C3)C=C(CC)C(CC)=C4)O.CC(O)=O	impurity	DCTI-C-1897	(S)-5-(2-((5,6-diethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)-8-hydroxyquinolin-2(1H)-one acetate	NA	Indacaterol S-Isomer Impurity; (S)-Indacaterol; Indacaterol Enantiomer; ent-Indacaterol	(free base): C24H28N2O3 (acetate Salt): C26H32N2O5	(Free base): 392.50 (acetate Salt): 452.55
1444		Indacaterol monoethyl impurity	O=C1C=CC2=C(N1)C(O)=CC=C2C(CNC3CC4=CC=C(CC)C=C4C3)O	impurity	DCTI-C-1230	5-(2-((5-ethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)-8-hydroxyquinolin-2(1H)-one	NA	NA	C22H24N2O3	364.45
1445		N-(5-ethyl-2,3-dihydro-1H-inden-2-yl)-2,2,2-trifluoroacetamide	O=C(C(F)(F)F)NC1CC2=CC=C(CC)C=C2C1	impurity	DCTI-C-1049	N-(5-ethyl-2,3-dihydro-1H-inden-2-yl)-2,2,2-trifluoroacetamide	601487-88-1	Indacaterol impurity	C13H14F3NO	257.25
1446		DEAH_5,6-diethyl-2,3-dihydro-1H-inden-2-amine hydrochloride(Indacaterol Impurities)	NC1CC2=CC(CC)=C(CC)C=C2C1.Cl	Impurity	DCTI-C-2896	5,6-diethyl-2,3-dihydro-1H-inden-2-amine hydrochloride	312753-53-0	2-Amino-5,6-diethylindane Hydrochloride	C13H19N (free base)C13H20ClN (HCl salt)	189.30 (free base)225.76 (HCl salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1447		ICM-I_[(R)-8-(benzyloxy)-5-(2-bromo-1-hydroxyethyl) quinolin-2(1H)-one](Indacaterol impurities)	O=C1NC2=C(OCC3=CC=CC=C3)C=CC([C@H](CBr)O)=C2C=C1	Impurity	DCTI-C-2897	(R)-8-(benzyloxy)-5-(2-bromo-1-hydroxyethyl)quinolin-2(1H)-one	530084-79-8	8-Benzyloxy-5-((R)-2-bromo-1-hydroxyethyl)-1H-quinolinone; 5-[(1R)-2-Bromo-1-hydroxyethyl]-8-(phenylmethoxy)-2(1H)-quinolinone	C18H16BrNO3	374.23
1448		Benzyl Indacaterol Benzoate	O=C(C1=CC=CC=C1)[O-].CCC2=CC3=C(C=C2CC)CC([NH2+]C[C@@H](C4=CC=C(OCC5=CC=CC=C5)C6=C4C=CC(N6)=O)O)C3	Impurity	DCTI-C-2923	(R)-N-(2-(8-(benzyloxy)-2-oxo-1,2-dihydroquinolin-5-yl)-2-hydroxyethyl)-5,6-diethyl-2,3-dihydro-1H-inden-2-aminium benzoate	753498-24-7	NA	C38H40N2O5 (Benzoate slat);C31H34N2O3 (free base)	604.75 (Benzoate slat); 482.62 (free base)
1449		Indacaterol S Isomer	CCC1=CC2=C(C=C1CC)CC(NC[C@H](C3=CC=C(C4=C3C=CC(N4)=O)O)O)C2	Impurity	DCTI-C-2931	(S)-5-(2-((5,6-diethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)-8-hydroxyquinolin-2(1H)-one	1235445-80-3	Indacaterol S-Isomer impurity; Indacaterol Enantiomer; (S)-Indacaterol	C24H28N2O3	392.5
1450		N-Nitroso Indacaterol	O=C1C=CC2=C(N1)C(O)=CC=C2C(O)CN(N=O)C3CC4=C(C3)C=C(CC)C(CC)=C4	NDSRI	DCTI-C-3330	N-(5,6-diethyl-2,3-dihydro-1H-inden-2-yl)-N-(2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)nitrous amide	NA	N-Nitroso Indacaterol (Mixture of isomers); Indacaterol Nitroso impurity	C24H27N3O4	421.5
1451	Iodixanol	Iodixanol Impurity-1 (Mixture of Isomers)	OC(CNC(C1=C(I)C(N(CC(O)CO)C(C)=O)=C(I)C(C(NCC(O)CO)=O)=C1I)=O)CNC(C2=C(I)C(N(CC(O)CO)C(C)=O)=C(I)C(C(NCC(O)CO)=O)=C2I)=O	IMPURITY	DCTI-C-2748	N1,N1'-(2-hydroxypropane-1,3-diyl)bis(N3-(2,3-dihydroxypropyl)-5-(N-(2,3-dihydroxypropyl)acetamido)-2,4,6-triiodoisophthalamide)	NA	NA	C35H44I6N6O15	1550.19

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1452		5,5'-((oxybis(2-hydroxypropane-3,1-diyl))bis(acetylazanediyl))bis(N1,N3-bis(2,3-dihydroxypropyl)-2,4,6-triiodoisophthalamide)	O=C(NCC(O)CO)C=1C(I)=C(C(=O)NCC(O)CO)C(I)=C(C1I)N(C(=O)C)CC(O)COCC(O)CN(C(=O)C)C=2C(I)=C(C(=O)NCC(O)CO)C(I)=C(C(=O)NCC(O)CO)C2I	Impurity	DCTI-C-3027	5,5'-((oxybis(2-hydroxypropane-3,1-diyl))bis(acetylazanediyl))bis(N1,N3-bis(2,3-dihydroxypropyl)-2,4,6-triiodoisophthalamide)	1186107-36-7	1,3-Benzenedicarboxamide, 5,5'-[oxybis[(2-hydroxy-3,1-propanediyl)(acetylimino)]]bis[N1,N3-bis(2,3-dihydroxypropyl)-2,4,6-triiodo- (ACI)	C38H50I6N6O17	1624.27
1453	Indacaterol	BHQ_[8-(benzyloxy)-5-(2-bromoacetyl_quinolin-2(1H)-one]	O=C(C1=CC=C(C2=C1C=CC(N2)=O)OCC3=CC=CC=C3)CBr	Impurity	DCTI-C-2908	8-(benzyloxy)-5-(2-bromoacetyl)quinolin-2(1H)-one	100331-89-3	8-Benzyloxy-5-(2-bromoacetyl)-2(1H)-quinolinone	C18H14BrNO3	372.22
1454		ICM-II_[(R)-8-(benzyloxy)-5-(2-bromo-1-((tert-butyl dimethylsilyl) oxy) ethyl) quinolin-2(1H)-one]	O=C1NC2=C(C=C1)C([C@@H](O[Si](C)(C)C(C)(C)C)CBr)=CC=C2OCC3=CC=CC=C3	Impurity	DCTI-C-2909	(R)-8-(benzyloxy)-5-(2-bromo-1-((tert-butyldimethylsilyl)oxy)ethyl)quinolin-2(1H)-one	530084-74-3	NA	C24H30BrNO3Si	488.5
1455		ICM-III maleate salt_[(R)-8-(benzyloxy)-5-(2-((5,6-dietyl-2,3-dihydro-1H-inden-2-yl) amino)-1-hydroxyethyl) quinolin-2(1H)-one maleate]	CCC1=CC2=C(C=C1CC)CC(NC[C@@H](C3=CC=C(C4=C3C=CC(N4)=O)OCC5=CC=CC=C5)O)C2.O=C(/C=C\C(O)=O)O	Impurity	DCTI-C-2924	(R)-8-(benzyloxy)-5-(2-((5,6-diethyl-2,3-dihydro-1H-inden-2-yl)amino)-1-hydroxyethyl)quinolin-2(1H)-one maleate	753498-28-1	ICM-III maleate salt	C35H38N2O7 (maleate salt); C31H34N2O3 (free base)	598.70 (maleate salt)482.62 (free base)
1456		EP IOHEXOLIMPURITY F/ Iohexol impurity F	O=C(NCC(O)CO)C1=CC(N)=C(I)C(C(NCC(O)CO)=O)=C1I	Impurity	DCTI-C-2604	5-amino-N1,N3-bis(2,3-dihydroxypropyl)-2,4-diiodoisophthalamide	1215856-35-1	Iohexol impurity f ;1,3-Benzenedicarboxamide,5-amino-N1,N3-bis(2,3-dihydroxy propyl)-2,4-diiodo-(acl)	C14H19I2N3O6	579.13
1457		EP IOHEXOLIMPURITY M/ Iohexol impurity M	O=C(NCC(O)CO)C1=C(I)C(NCC(O)CO)=CC(C(NCC(CO)O)=O)=C1I	Impurity	DCTI-C-2497	N1,N3-bis(2,3-dihydroxypropyl)-5-((2,3-dihydropropyl)amino)-2,4-diiodoisopthalamide	NA	Iohexol EP impurity M	C17H25I2N3O8	653.21

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1458	IOHEXOL	EP IOHEXOL IMPURITY G/ Iohexol Impurity G	IC1=C(C(NCC(CO)O)=O)C=C(NC(C)=O)C(I)=C1C(NCC(CO)O)=O	Impurity	DCTI-C-2451	5-acetamido-N1,N3-bis(2,3-dihydroxypropyl)-2,4-diiodoisophthalamide	NA	NA	C16H21I2N3O7	621.17
1459		EP IOHEXOL IMPURITY H/Iohexol Impurity H	CC(N(C1=CC(C(NCC(CO)O)=O)=C(C(C(NCC(CO)O)=O)=O)=C1I)I)CC(CO)O)=O	Impurity	DCTI-C-2452	N1,N3-bis(2,3-dihydroxypropyl)-5-(N-(2,3-dihydroxypropyl)acetamido)-2,4-diiodoisophthalamide	1651211-78-7	NA	C19H27I2N3O9	695.25
1460		EP IOHEXOL IMPURITY I/ Iohexol Impurity I	IC1=C(C(NCC(O)CO)=O)C2=C(C(I)=C1C(NCC(O)CO)=O)NCC(CO)O2	Impurity	DCTI-C-2453	N6,N8-bis(2,3-dihydroxypropyl)-2-(hydroxymethyl)-5,7-diiodo-3,4-dihydro-2H-benzo[b][1,4]oxazine-6,8-dicarboxamide	196309-19-0	NA	C17H23I2N3O8	651.19
1461		Iso Iso Iopamidol	IC1=C(C(I)=C(C(NCC(O)CO)=O)C(I)=C1C(NCC(O)CO)=O)NC([C@@H](O)C)=O	Impurity	DCTI-C-2611	N1,N3-bis(2,3-dihydroxypropyl)-5-((S)-2-hydroxypropanamido)-2,4,6-triiodoisophthalamide	NA	NA	C17H22I3N3O8	777.09

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1462	Iopamidol	O-Acetyl Iopamidol / APADI	IC1=C(C(I)=C(C(NC(CO)CO)=O)C(I)=C1C(NC(CO)CO)=O)NC([C@@H](OC(C)=O)C)=O	Impurity	DCTI-C-2612	(S)-1-((3,5-bis((1,3-dihydroxypropan-2-yl)carbamoyl)-2,4,6-triiodophenyl)amino)-1-oxopropan-2-yl acetate	60166-92-9	1,3-benzene dicarboxamide,5-((2-(acetyloxy)-1-oxopropyl)amino)-N,N-bis(2-hydroxy-1-(hydroxy methyl)ethyl)-2,4,6-triiodo-(s)-(zcl);Acetic acid(s)1-((3,5-bis((1,3-dihydroxy propan-2-yl)-2,4,6-triiodophenyl)amino)-1-oxopropan-2-yl ester;APADI;iopamidol EP impurity E;iopamidol impurity E	C19H24I3N3O	819.13
1463		Bis-Dimethylamino iopamidol	IC1=C(C(I)=C(C(N(C)C)=O)C(I)=C1C(N(C)C)=O)NC([C@@H](O)C)=O	Impurity	DCTI-C-2613	(S)-5-(2-hydroxypropanamido)-2,4,6-triiodo-N1,N1,N3,N3-tetramethylisophthalamide	NA	Bis Dimethylamino Iopamidol	C15H18I3N3O4	685.04
1464		Hydroxy ethyl derivative(or)butryl (or)EP impurity-J	IC1=C(C(I)=C(C(NC(CO)CO)=O)C(I)=C1C(NCCO)=O)NC([C@@H](O)C)=O	Impurity	DCTI-C-2281	(S)-N1-(1,3-dihydroxypropan-2-yl)-N3-(2-hydroxyethyl)-5-(2-hydroxypropanamido)-2,4,6-triiodoisophthalamide	77868-44-1	1,3-Benzene dicarboxamide,N(2-hydroxyethyl) -N-(2-hydroxy-1-(hydroxy methyl)ethyl)-5-((2-hydroxy-1-oxo propyl)amino)-2,4,6-triiodo-(s)- (9cl);Iopamidol EP impurity-J	C16H20I3N3O7	747.06
1465		2,3- Dihydroxy propyl isomer /Iso Iopamidol	IC1=C(C(I)=C(C(NC(CO)CO)=O)C(I)=C1C(NCC(O)CO)=O)NC([C@@H](O)C)=O	Impurity	DCTI-C-2280	N1-(1,3-dihydroxypropan-2-yl)-N3-(2,3-dihydroxypropyl)-5-((S)-2-hydroxypropanamido)-2,4,6-triiodoisophthalamide	1869069-72-6	1,3-Benzene dicarboxamide,N(2-hydroxyethyl) -N-(2-hydroxy-1-(hydroxy methyl)ethyl)-5-((2-hydroxy-1-oxo propyl)amino)-2,4,6-triiodo-(ACI); Iopamidol ep impurity-G;N1-(2,3-Dihydroxy propyl)-n3-(2-hydroxy -1-(hydroxymethyl)ethyl)-5-[[(2S)-2-hydroxy -1- oxa propyl)amino)-2,4,6-triiodo -1,3	C17H22I3N3O8	777.09

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1466		N,NDimethyl amino derivative, Dimethyl amino iopamidol ,Iopomidol EP Impurity-F	IC1=C(C(I)=C(C(NC(CO)CO)=O)C(I)=C1C(N(C)C)=O)NC([C@@H](O)C)=O	Impurity	DCTI-C-2282	(S)-N1-(1,3-dihydroxypropan-2-yl)-5-(2-hydroxypropanamido)-2,4,6-triiodo-N3,N3-dimethylisophthalamide	1869069-71-5	Iopamidol EP impurity E	C16H20I3N3O6	731.06
1467		Mono carboxylic acid	O=C(C1=C(C(NC([C@H](C)O)=O)=C(C(C(NC(CO)CO)=O)=C1I)I)I)O	Impurity	DCTI-C-2283	N1,N3-bis(2,3-dihydroxypropyl)-5-(N-(2,3-dihydroxypropyl)acetamido)-2,4,6-triiodoisophthalamide	87932-11-4	(S)-3-((1,3-dihydroxypropan-2-yl)carbamoyl)-5-(2-hydroxypropanamido)-2,4,6-triiodobenzoic acid	C14H15I3N2O7	703.99
1468		Diiodo Derivative	C(NC(CO)CO)(=O)C1=C(I)C(C(NC(CO)CO)=O)=CC(NC([C@H](C)O)=O)=C1I	Impurity	DCTI-C-2290	(S)-N1,N3-bis(1,3-dihydroxypropan-2-yl)-5-(2-hydroxypropanamido)-2,4-diiodoisophthalamide	1788899-70-6	na	C17H23I2N3O8	651.19
1469		Iopamidol EP Impurity I	O=C(NC(CO)CO)C1=C(I)C(NC([C@@H](O)C)=O)=C(I)C(C(NC(CO)CO)=O)=C1Cl	Impurity	DCTI-C-2294	(S)-2-chloro-N1,N3-bis(1,3-dihydroxypropan-2-yl)-5-(2-hydroxypropanamido)-4,6-diiodoisophthalamide	na	2-chloro derivative of Iopidamol	C17H22ClI2N3O8	685.63
1470	**Irbesartan**	Irbesartan Oxime impurity	O=C1N(CC2=CC=C(C3=CC=CC=C3C4=NNN=N4)C=C2)C(/C(CCC)=N/O)=NC15CCCC5	impurity	DCTI-C-2053	3-((2'-(2H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-2-(1-(hydroxyimino)butyl)-1,3-diazaspiro[4.4]non-1-en-4-one	2757965-00-5	Irbesartan Oxime	C25H27N7O2	457.54
1471		Irbesartan azido impurity	[N-]=[N+]=NCC(C=C1)=CC=C1C2=CC=CC=C2C3=NN=NN3	impurity	DCTI-C-1216	5-(4'-(azidomethyl)-[1,1'-biphenyl]-2-yl)-1H-tetrazole	NA	NA	C12H21NO3	227.3

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1472	**Isopropyl Isonipecotate**	Isopropyl Isonipecotate	O=C(OC(C)C)C1CCNCC1	impurity	DCTI-C-961	Isopropyl piperidine-4-carboxylate	251638-86-5	NA	C9H17NO2	171.24
1473	**Isoproterenol**	6,7-DIMETHOXYISATIN	O=C1NC2=C(C=CC(OC)=C2OC)C1=O	Impurity	DCTI-C-2891	6,7-dimethoxyindoline-2,3-dione	76159-91-6	NA	C10H9NO4	207.19
1474	**Isoprenaline**	2-chloro-1-(4-hydroxyphenyl)ethan-1-one	ClCC(C1=CC=C(O)C=C1)=O	Impurity	DCTI-C-3082	2-chloro-1-(4-hydroxyphenyl)ethan-1-one	6305-04-0	4-Hydroxy-α-chloroacetophenone; p-(Chloroacetyl)phenol; 4′-Hydroxy-2-chloroacetophenone; p-Hydroxyphenacyl chloride	C8H7ClO2	170.59
1475		2-chloro-1-(2,4-dihydroxyphenyl)ethan-1-one	ClCC(C1=CC=C(O)C=C1O)=O	Impurity	DCTI-C-3083	2-chloro-1-(2,4-dihydroxyphenyl)ethan-1-one	25015-92-3	2,4-Dihydroxyphenacyl chloride; 2-Chloro-2′,4′-dihydroxyacetophenone	C8H7ClO3	186.59
1476		2-chloro-1-(2,5-dihydroxyphenyl)ethan-1-one	OC1=CC(C(CCl)=O)=C(O)C=C1	Impurity	DCTI-C-3111	2-chloro-1-(2,5-dihydroxyphenyl)ethan-1-one	60912-82-5	2933.A0729.2-Chloro-1-(2,5-dihydroxyphenyl)ethanone	C8H7ClO3	186.59
1477		Isoprenaline Impurity 3	OC1=C(OC)C=C(C(O)CNC(C)C)C=C1.OC(C)=O	Impurity	DCTI-C-3119	4-(1-hydroxy-2-(isopropylamino)ethyl)-2-methoxyphenol Acetate	1212-03-9 (Free Base)	Metiprenaline; 2933.A0730.Isoprenaline Impurity 3.	C12H19NO3 (Free Base); C14H23NO5 (Acetate Salt)	225.29 (Free Base); 285.34 (Acetate Salt)
1478		Isoprenaline Impurity 4	OC(C)=O.OC1=C(OC)C=CC(C(O)CNC(C)C)=C1	Impurity	DCTI-C-3123	5-(1-hydroxy-2-(isopropylamino)ethyl)-2-methoxyphenol Acetate	3413-49-8 (Free Base)	p-O-Methyl-isoproterenol; 2933.A0731.Isoprenaline Impurity 4.	C12H19NO3 (Free Base); C14H23NO5 (Acetate Salt)	225.29 (Free Base); 285.34 (Acetate Salt)
1479	**Isosulfan Blue**	Isosulfan Blue Impurity 1	O=C(C1=CC(S(=O)(O)=O)=CC=C1S(=O)(O)=O)C2=CC=C(N(CC)CC)C=C2	Impurity	DCTI-C-1490	2-(4-(diethyl amino) benzoyl) benzene-1, 4-disulfonic acid	NA	NA	C17H19NO7S2	413.46

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1480	Isotretinoin	13-cis-5,6-Epoxy-5,6-dihydroretinoic Acid	CC1(C)C2(/C=C/C(C)=C/C=C/C(C)=C\C(O)=O)C(C)(O2)CCC1	Impurity	DCTI-C-005	(2Z,4E,6E,8E)-3,7-dimethyl-9-(2,2,6-trimethyl-7-oxabicyclo[4.1.0]heptan-1-yl)nona-2,4,6,8-tetraenoic acid	81444-57-7	NA	C20H28O3	316.44
1481		Isotretinoin Impurity I	CC1(C)C(/C=C/C(C)=C/C=C/C(C)=C\C(O)=O)=C(C)C(O)CC1	MEtabolite	DCTI-C-854	(2Z,4E,6E,8E)-9-(3-hydroxy-2,6,6-trimethylcyclohex-1-en-1-yl)-3,7-dimethylnona-2,4,6,8-tetraenoic acid	75281-25-3	4-Hydroxy-13-cis-retinoic Acid; 4-Hydroxyisotretinoin	C20H28O3	316.44
1482		4-Oxo-13-cis-retinoic acid	CC(CC1)(C)C(/C=C/C(C)=C/C=C/C(C)=C\C(O)=O)=C(C)C1=O	MEtabolite	DCTI-C-855	(2Z,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethyl-3-oxocyclohex-1-en-1-yl)nona-2,4,6,8-tetraenoic acid	71748-58-8	13-cis-4-Oxoretinoic acid; 4-Oxoisotretinoin	C20H26O3	314.43
1483		Isavuconazole Impurity-2	N#C[C@H](C)[C@](O)(C1=CC(F)=CC=C1F)CN2N=CN=C2	impurity	DCTI-C-1922	(2S,3S)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl) butanenitrile - (relative stereochemistry)	2001051-99-4	Isavuconazole Impurity-2 (Diasteromer-1)	C13H12F2N4O	278.26
1484		Isavuconazole Impurity-2 (Diastereomer-2)	N#C[C@@H](C)[C@@](O)(C1=CC(F)=CC=C1F)CN2N=CN=C2	impurity	DCTI-C-1924	(2R,3R)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanenitrile- (relative stereochemistry)	2001052-01-1	Isavuconazole Intermediate-8	C13H12F2N4O	278.26
1485		Isavuconazole Impurity-6	N#C[C@@H](C)[C@](O)(C1=CC(F)=CC=C1F)CN2N=CN=C2	impurity	DCTI-C-1923	(2R,3S)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanenitrile	2069200-13-9	NA	C13H12F2N4O	278.26
1486		Isavuconazole Impurity 36	NC([C@H](C)[C@@](CN1C=NC=N1)(O)C2=C(F)C=CC(F)=C2)=S	impurity	DCTI-C-1929	(2R,3R)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	368421-58-3	(αR,βR)-β-(2,5-Difluorophenyl)-β-hydroxy-α-methyl-1H-1,2,4-triazole-1-butanethioamide (ACI).	C13H14F2N4OS	312.34

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1487		Isavuconazole Impurity 14	NC([C@@H](C)[C@@](CN1C=NC=N1)(O)C2=C(F)C=CC(F)=C2)=S	impurity	DCTI-C-1928	(2S,3R)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	2170932-49-5	NA	C13H14F2N4OS	312.34
1488		(2S,3S)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	NC([C@@H](C)[C@](CN1C=NC=N1)(O)C2=C(F)C=CC(F)=C2)=S	impurity	DCTI-C-1927	(2S,3S)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	NA	NA	C13H14F2N4OS	312.34
1489		Isavuconazole Impurity 15	NC([C@H](C)[C@](CN1C=NC=N1)(O)C2=C(F)C=CC(F)=C2)=S	impurity	DCTI-C-1926	(2R,3S)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	NA	NA	C13H14F2N4OS	312.34
1490		(2S,3R)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanenitrile	N#C[C@H](C)[C@@](O)(C1=CC(F)=CC=C1F)CN2N=CN=C2	impurity	DCTI-C-1925	(2S,3R)-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanenitrile	241479-74-3	(αS,βR)-β-(2,5-Difluorophenyl)-β-hydroxy-α-methyl-1H-1,2,4-triazole-1-butanenitrile (ACI);Isavuconazole Intermediate-7	C13H12F2N4O	278.26
1491		(2-(methylamino)pyridin-3-yl)methyl methylglycinate dihydrochloride	CNC1=NC=CC=C1COC(CNC)=O.[H]Cl.[H]Cl	Impurity	DCTI-C-2308	(2-(methylamino)pyridin-3-yl)methyl methylglycinate dihydrochloride	NA	Isavuconazole impurity 42 HCl	C10H15N3O2(free base)C10H17ClI2N3O2(HCL.Salt)	209.25(Free Base); 282.17(HCl.salt)
1492	**Isavuconazole**	(2-(methylamino)pyridin-3-yl)methanol	OCC1=C(NC)N=CC=C1	Impurity	DCTI-C-2307	(2-(methylamino)pyridin-3-yl)methanol	32399-12-5	Isavuconazole impurity 62	C7H10N2O	138.17

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1493		Isavuconazole Diastereomer-1	C[C@@H]([C@](C1=CC(F)=CC=C1F)(O)CN2C=NC=N2)C3=NC(C4=CC=C(C#N)C=C4)=CS3	Impurity	DCTI-C-2536	4-(2-((2S,3R)-3-(2,5-difluorophenyl)-3-hydroxy-4-(1H-1,2,4-triazol-1-yl)butan-2-yl)thiazol-4-yl)benzonitrile	NA	NA	C22H17F2N5OS	437.47
1494		Isavuconazole Diastereomer-2	C[C@H]([C@@](C1=CC(F)=CC=C1F)(O)CN2C=NC=N2)C3=NC(C4=CC=C(C#N)C=C4)=CS3	Impurity	DCTI-C-2537	4-(2-((2R,3S)-3-(2,5-difluorophenyl)-3-hydroxy-4-(1H-1,2,4-triazol-1-yl)butan-2-yl)thiazol-4-yl)benzonitrile	NA	NA	C22H17F2N5OS	437.47
1495		Isavuconazole Enantiomer	C[C@@H]([C@@](C1=CC(F)=CC=C1F)(O)CN2C=NC=N2)C3=NC(C4=CC=C(C#N)C=C4)=CS3	Impurity	DCTI-C-2538	4-(2-((2S,3S)-3-(2,5-difluorophenyl)-3-hydroxy-4-(1H-1,2,4-triazol-1-yl)butan-2-yl)thiazol-4-yl)benzonitrile	NA	NA	C22H17F2N5OS	437.47
1496		Isavuconazole Impurity 33	CN1C2=NC=CC=C2COC1=O	MEtabolite	DCTI-C-2534	1-methyl-1,4-dihydro-2H-pyrido[2,3-d][1,3]oxazin-2-one	2734004-61-4	1-methyl-1,4-dihydro-2H-pyrido[2,3-d][1,3]oxazin-2-one	C8H8N2O2	164.16
1497		Isavuconazole Impurity B	CC([N+]1=CN(C[C@](O)(C2=CC(F)=CC=C2F)[C@H](C3=NC(C4=CC=C(C#N)C=C4)=CS3)C)N=C1)OC(N(C5=NC=CC=C5CO)C)=O.[H]Cl.[Cl-]	MEtabolite	DCTI-C-2541	1-((2R,3R)-3-(4-(4-cyanophenyl)thiazol-2-yl)-2-(2,5-difluorophenyl)-2-hydroxybutyl)-4-(1-(((3-(hydroxymethyl)pyridin-2-yl)(methyl)carbamoyl)oxy)ethyl)-1H-1,2,4-triazol-4-ium chloride hydrochloride	NA	1. Isavuconazonium hydroxy methyl impurity 2.IVZ hydroxy methyl impurity	Free Base: C32H30F2N7O4S+ HCl Salt: C32H31Cl2F2N7O4S	Free Base: 646.69 HCl Salt: 718.60
1498		Desfluoro IVZ Thiomide	NC([C@H](C)[C@@](CN1N=CN=C1)(O)C2=C(F)C=CC=C2)=S	Impurity	DCTI-C-2981	(2R,3R)-3-(2-fluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	NA	NA	C13H15FN4OS	294.35

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1499		Di desfluoro amide impurity	NC([C@H](C)[C@@](CN1N=CN=C1)(O)C2=CC=CC=C2)=O	Impurity	DCTI-C-3030	(2R,3R)-3-hydroxy-2-methyl-3-phenyl-4-(1H-1,2,4-triazol-1-yl)butanamide	NA	NA	C13H16N4O2	260.3
1500		Isavuconazole Thioamide mixture of isomers	NC(C(C)C(CN1C=NC=N1)(O)C2=C(F)C=CC(F)=C2)=S	Impurity	DCTI-C-2326	3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl)butanethioamide	2517755-29-0	na	C13H14F2N4OS	312.34
1501		Isavuconazole Mixture	N#CC1=CC=C(C2=CSC(C3CC(O)(C4=CC(F)=CC=C4F3)CN5N=CN=C5)=N2)C=C1	Impurity	DCTI-C-2313	4-(2-(4-((1H-1,2,4-triazol-1-yl)methyl)-6-fluoro-4-hydroxy-3,4-dihydro-2H-1l2-benzo[b]fluorinin-2-yl)thiazol-4-yl)benzonitrile	na	4-(2-(4-((1H-1,2,4-triazol-1-yl)methyl)-6-fluoro-4-hydroxy-3,4-dihydro-2H-1l2-benzo[b]fluorinin-2-yl)thiazol-4-yl)benzonitrile	C22H16F2N5OS	436.46
1502	**Isavuconazonium**	Isavuconazonium chloride(diasteriomer-2)	O=C(OCC1=CC=CN=C1N(C(OC([N+]2=CN(C[C@](O)(C3=CC(F)=CC=C3F)[C@@H](C4=NC(C5=CC=C(C#N)C=C5)=CS4)C)N=C2)C)=O)C)CNC.[Cl-].Cl	Impurity	DCTI-C-2272	1-((2R,3S)-3-(4-(4-cyanophenyl)thiazol-2-yl)-2-(2,5-difluorophenyl)-2-hydroxybutyl)-4-(1-((methyl(3-(((methylglycyl)oxy)methyl)pyridin-2-yl)carbamoyl)oxy)ethyl)-1H-1,2,4-triazol-4-ium	2169911-47-9	NA	C35H35F2N8O5S+(FREE BASE) C35H36CL2F2N8O5S(CHLORIDE SALT)	717.77(free base) 789.69(chloride salt)
1503		Isavuconazonium chloride(enantiomer)	O=C(OCC1=CC=CN=C1N(C(OC([N+]2=CN(C[C@@](O)(C3=CC(F)=CC=C3F)[C@@H](C4=NC(C5=CC=C(C#N)C=C5)=CS4)C)N=C2)C)=O)C)CNC.[Cl-].Cl	Impurity	DCTI-C-2273	1-((2S,3S)-3-(4-(4-cyanophenyl)thiazol-2-yl)-2-(2,5-difluorophenyl)-2-hydroxybutyl)-4-(1-((methyl(3-(((methylglycyl)oxy)methyl)pyridin-2-yl)carbamoyl)oxy)ethyl)-1H-1,2,4-triazol-4-ium chloride hydrochloride	NA	NA	C35H35F2N8O5S+(FREE BASE) C35H36CL2F2N8O5S(CHLORIDE SALT)	717.77(free base) 789.69(chloride salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1504		Isavuconazonium chloride(diasteriomer-1)	O=C(OCC1=CC=CN=C1N(C(OC([N+]2=CN(C[C@@](O)(C3=CC(F)=CC=C3F)[C@H](C4=NC(C5=CC=C(C#N)C=C5)=CS4)C)N=C2)C)=O)C)CNC.[Cl-].Cl	Impurity	DCTI-C-2271	1-((2S,3R)-3-(4-(4-cyanophenyl)thiazol-2-yl)-2-(2,5-difluorophenyl)-2-hydroxybutyl)-4-(1-((methyl(3-(((methylglycyl)oxy)methyl)pyridin-2-yl)carbamoyl)oxy)ethyl)-1H-1,2,4-triazol-4-ium chloride hydrochloride	NA	NA	C35H35F2N8O5S+(FREE BASE) C35H36CL2F2N8O5S(CHLORIDE SALT)	717.77(free base) 789.69(chloride salt)
1505	**Istradefylline**	Istradefylline Impurity	O=NN(C(NCC)=O)CC	NDSRI	DCTI-C-1625	1,3-diethyl-1-nitrosourea	49540-32-1	NA	C5H11N3O2	145.16
1506	**Itraconazole**	N-Desalkyl Itraconazole	O=C(NN=C1)N1C(C=C2)=CC=C2N(CC3)CCN3C(C=C4)=CC=C4OC[C@@H](CO5)O[C@]5(C6=C(C=C(C=C6)Cl)Cl)CN7C=NC=N7	Metabolites	DCTI-C-3669	rel-4-[4-[4-[4-[[(2R,4S)-2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-2,4-dihydro-3H-1,2,4-triazol-3-one	89848-41-9	Itraconazole N-Desalkyl Impurity	C31H30Cl2N8O4	649.53
1507		Keto Itraconazole	O=C(N(N=C1)C(C)C(C)=O)N1C(C=C2)=CC=C2N(CC3)CCN3C(C=C4)=CC=C4OC[C@@H](CO5)O[C@]5(C6=C(C=C(C=C6)Cl)Cl)CN7C=NC=N7	Metabolites	DCTI-C-3668	rel-4-[4-[4-[4-[[(2R,4S)-2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-2,4-dihydro-2-(1-methyl-2-oxopropyl)-3H-1,2,4-triazol-3-one	112560-33-5	Itraconazole 2-oxo metabolite	C35H36Cl2N8O5	719.62
1508		Ivabradine chloro impurity	O=C1N(CCCN(C)CC(CCl)C2=CC(OC)=C(C=C2)OC)CCC3=C(C1)C=C(OC)C(OC)=C3.Cl	impurity	DCTI-C-1491	3-(3-((3-chloro-2-(3,4-dimethoxyphenyl)propyl)(methyl)amino)propyl)-7,8-dimethoxy-1,3,4,5-tetrahydro-2H-benzo[d]azepin-2-one hydrochloride	NA	Ivabradine impurity	C27H37ClN2O5 (Free Base) C27H38Cl2N2O5 (HCl Salt)	505.05 (Free Base) 541.51 (HCl Salt)
1509		Ivabradine intermediate allyl impurity	O=C1N(CC=C)C=CC2=CC(OC)=C(OC)C=C2C1	impurity	DCTI-C-1855	3-allyl-7,8-dimethoxy-1,3-dihydro-2H-benzo[d]azepin-2-one	NA	7,8-dimethoxy-3-(prop-2-en-1-yl)-1,3-dihydro-2H-3-benzazepin-2-one	C15H17NO3	259.31
1510		Ivabradine intermediate propanol impurity	O=C1N(CCCO)C=CC2=CC(OC)=C(OC)C=C2C1	impurity	DCTI-C-1856	3-(3-hydroxypropyl)-7,8-dimethoxy-1,3-dihydro-2H-benzo[d]azepin-2-one	NA	1,3-Dihydro-3-(3-Hydroxypropyl)-7,8-Dimethoxy-2H-3-Benzazepin-2-One	C15H19NO4	277.32
1511		Ivabradine Impurity D	CNC[C@H]1CC2=CC(OC)=C(OC)C=C21.Cl	Impurity	DCTI-C-1743	(S)-1-(3,4-dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl)-N-methylmethanamine hydrochloride	NA	NA	C12H17NO2 (Free base) C12H18ClNO2 (Salt)	207.27 (Free base) 243.73 (Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1512	Ivabradine	Ivabradine Intermediate	O=C1N(CCCNC)CCC2=CC(OC)=C(OC)C=C2C1	Impurity	DCTI-C-1744	7,8-dimethoxy-3-(3-(methylamino)propyl)-1,3,4,5-tetrahydro-2H-benzo[d]azepin-2-one	85175-77-5	NA	C16H24N2O3	292.38
1513		Ivabradine impurity	O=C1N(CCCN(C)C[C@@H]2C3=CC(OC)=C(C=C3C2)OC)CC(O)C4=C(C1)C=C(OC)C(OC)=C4	impurity	DCTI-C-1034	3-(3-((((S)-3,4-dimethoxybicyclo[4.2.0]octa-1(6),2,4-trien-7-yl)methyl)(methyl)amino)propyl)-5-hydroxy-7,8-dimethoxy-1,3,4,5-tetrahydro-2H-benzo[d]azepin-2-one	2253977-80-7	NA	C27H36N2O6	484.59
1514		Ivabradine intermediate nitroso impurity	O=NN(C)C[C@@H]1C2=CC(OC)=C(C=C2C1)OC	NDSRI	DCTI-C-1678	(S)-N-((3,4-dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl)methyl)-N-methylnitrous amide	NA	N-Nitroso SICBA	C12H16N2O3	236.27
1515		Ivabradine ring open impurity	COC(C=C1CCNCCCN(C)C[C@@H]2C3=C(C2)C=C(OC)C(OC)=C3)=C(C=C1CC(O)=O)OC	IMPURITY	DCTI-C-3252	(S)-2-(2-(2-((3-(((3,4-dimethoxybicyclo[4.2.0]octa-1(6),2,4-trien-7-yl)methyl)(methyl)amino)propyl)amino)ethyl)-4,5-dimethoxyphenyl)acetic acid	1462470-54-7	Ivabradine impurity 5	C27H38N2O6	486.61
1516		Ivabradine Impurity B	O=C1N(CCCN(CC2C3=CC(OC)=C(OC)C=C3C2)CCC(CC(OC)C(OC)C4)C4C1.O=C(O)[C@@H](O)[C@H](O)C(O)=O	Impurity	DCTI-C-2327	3-(3-(((3,4-dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl)methyl)(methyl)amino)propyl)-7,8-dimethoxydecahydro-2H-benzo[d]azepin-2-one (2S,3S)-2,3-dihydroxysuccinate	na	Ivabradine Impurity B Tataric salt	C31H48N2O11	624.73
1517	Ivacaftor	Hydroxymethyl Ivacaftor	O=C(C1=CNC2=C(C=CC=C2)C1=O)NC3=CC(O)=C(C(C)(C)CO)C=C3C(C)(C)C	Impurity	DCTI-C-2491	N-(2-(tert-butyl)-5-hydroxy-4-(1-hydroxy-2-methylpropan-2-yl)phenyl)-4-oxo-1,4-dihydroquinoline-3-carboxamide	1246213-23-9	Ivacaftor Hydroxymethyl Impurity: Ivacaftor Impurity 2: M1 (hydroxymethyl-ivacaftor)	C24H28N2O4	408.49
1518		De-tert-butyl Ivacaftor	O=C(NC1=CC=C(C(O)=C1)C(C)(C)C)C2=CNC=3C=CC=CC3C2=O	Impurity	DCTI-C-2964	N-(4-(tert-butyl)-3-hydroxyphenyl)-4-oxo-1,4-dihydroquinoline-3-carboxamide	873054-39-8	NA	C20H20N2O3	336.39

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1519	**Ivosidenib**	2-((S)-2-(((S)-1-(2-chlorophenyl)-2-((3,3-difluorocyclobutyl)amino)-2-oxoethyl)(5-fluoropyridin-3-yl)carbamoyl)-5-oxopyrrolidin-1-yl)isonicotinamide	O=C(N)C1=CC=NC(N2[C@H](C(N([C@H](C(NC3CC(F)(F)C3)=O)C4=CC=CC=C4Cl)C5=CC(F)=CN=C5)=O)CCC2=O)=C1	MEtabolite	DCTI-C-1316	2-((S)-2-(((S)-1-(2-chlorophenyl)-2-((3,3-difluorocyclobutyl)amino)-2-oxoethyl)(5-fluoropyridin-3-yl)carbamoyl)-5-oxopyrrolidin-1-yl)isonicotinamide	NA	Ivosidenib Isonicotinamide	C28H24ClF3N6O4	600.98
1520	**Ixazomib**	6-methoxy-1,3,5-triazine-2,4-diol	OC1=NC(O)=NC(OC)=N1	Impurity	DCTI-C-1450	6-methoxy-1,3,5-triazine-2,4-diol	NA	NA	C4H5N3O3	143.1
1521		2,5-dichloro-N-(2-(3-methylbutanamido)-2-oxoethyl) benzamide	O=C(NCC(NC(CC(C)C)=O)=O)C1=CC(Cl)=CC=C1Cl	Impurity	DCTI-C-3590	2,5-dichloro-N-(2-(3-methylbutanamido)-2-oxoethyl)benzamide	NA	IXZ-Keto	C14H16Cl2N2O3	331.19
1522		Ixazomib Impurity-B	O=C(NCC(NCCC(C)C)=O)C1=CC(Cl)=CC=C1Cl	Impurity	DCTI-C-3606	2,5-dichloro-N-(2-(isopentylamino)-2-oxoethyl)benzamide	2872629-73-5	NA	C14H18Cl2N2O2	317.21
1523		Ixazomib Impurity-C	O=C(NCC(N)=O)C1=CC(Cl)=CC=C1Cl	Impurity	DCTI-C-3607	N-(2-amino-2-oxoethyl)-2,5-dichlorobenzamide	1378314-08-9	NA	C9H8Cl2N2O2	247.07
1524		Ixazomib Impurity-D	CC(C)C[C@@H](B(O)O)NC(C1=CC(Cl)=CC=C1Cl)=O	Impurity	DCTI-C-3632	(R)-(1-(2,5-dichlorobenzamido)-3-methylbutyl)boronic acid	2806031-79-6	[(1R)-1-[(2, 5-dichlorobenzoyl) amino]-3-methyl-butyl] boronic acid	C12H16BCl2NO3	303.97
1525	**Ketoprofen**	Ketoprofen, R-isomer	O=C(C1=CC=CC([C@@H](C)C(O)=O)=C1)C2=CC=CC=C2	Labelled Standard	DCTI-A-005	(R)-2-(3-benzoylphenyl)propanoic acid	56105-81-8	(R)-(-)-Ketoprofen	C16H14O3	254.29
1526		Ketoprofen, S-isomer	O=C(C1=CC=CC([C@H](C)C(O)=O)=C1)C2=CC=CC=C2	Labelled Standard	DCTI-A-006	(S)-2-(3-benzoylphenyl)propanoic acid	22161-81-5	(S)-(+)-Ketoprofen	C16H14O3	254.29
1527	**Ketoconazole**	Ketoconazole R600640 Impurity	O=C(C)N1CCN(CC1)C2=CC=C(C=C2)OC[C@@H]3O[C@](C4=C(Cl)C=C(Cl)C=C4)(CN5C=C[N+](CC6=CC(C(C)(C)C)=C(O)C(C(C)(C)C)=C6)=C5)OC3.[Br-]	Impurity	DCTI-C-3759	rel-1-(((2R,4S)-4-((4-(4-acetylpiperazin-1-yl)phenoxy)methyl)-2-(2,4-dichlorophenyl)-1,3-dioxolan-2-yl)methyl)-3-(3,5-di-tert-butyl-4-hydroxybenzyl)-1H-imidazol-3-ium bromide	NA	Ketoconazole-BHT adduct, Impurity Number R600640	C41H51Cl2N4O5 (without salt) C41H51BrCl2N4O5 (Bromo salt)	750.78 (without salt) 830.69 (Bromo salt)

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1528		5-[2-[Bis(phenylmethyl)amino]-1-hydroxyethyl]-2-hydroxybenzamide (Labetalaol-bisbenzyl base]	O=C(N)C1=C(O)C=CC(C(O)CN(CC2=CC=CC=C2)CC3=CC=CC=C3)=C1	impurity	DCTI-C-1492	5-(2-(dibenzylamino)-1-hydroxyethyl)-2-hydroxybenzamide	101416-22-2	Labetalaol impurity	C23H24N2O3	376.45
1529		(S,S)-LABETALOL	OC1=C(C(N)=O)C=C([C@H](O)CN[C@@H](C)CCC2=CC=CC=C2)C=C1	Impurity	DCTI-C-2632	2-hydroxy-5-((S)-1-hydroxy-2-(((S)-4-phenylbutan-2-yl)amino)ethyl)benzamide	83167-24-2	NA	C19H24N2O3	328.41
1530		(R,R)-LABETALOL	OC1=C(C(N)=O)C=C([C@@H](O)CN[C@H](C)CCC2=CC=CC=C2)C=C1	Impurity	DCTI-C-2633	2-hydroxy-5-((R)-1-hydroxy-2-(((R)-4-phenylbutan-2-yl)amino)ethyl)benzamide	75659-07-3	Dilevalol	C19H24N2O3	328.41
1531	**Labetalol**	(S,R)-LABETALOL	OC1=C(C(N)=O)C=C([C@H](O)CN[C@H](C)CCC2=CC=CC=C2)C=C1	Impurity	DCTI-C-2634	2-hydroxy-5-((S)-1-hydroxy-2-(((R)-4-phenylbutan-2-yl)amino)ethyl)benzamide	83167-32-2	NA	C19H24N2O3	328.41

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1532		(R,S)-LABETALOL	O=C(N)C1=CC([C@@H](O)CN[C@H](CCC2=CC=CC=C2)C)=CC=C1O	Impurity	DCTI-C-2635	2-hydroxy-5-((R)-1-hydroxy-2-(((S)-4-phenylbutan-2-yl)amino)ethyl)benzamide	83167-31-1	NA	C19H24N2O3	328.41
1533		Labetalol Impurity C	OC(C=CC(C(CN(CC1=CC=CC=C1)CC2=CC=CC=C2)=O)=C3)=C3C(N)=O	Impurity	DCTI-C-2793	5-(dibenzylglycyl)-2-hydroxybenzamide	30566-92-8	5-(N,N-Dibenzylglycyl)-salicylamide, 5-[2-(dibenzylamino)acetyl]-2-hydroxybenzamide	C23H22N2O3	374.44
1534		Labetalol Nitroso Impurity	O=C(N)C1=CC(C(O)CN(N=O)C(C)CCC2=CC=CC=C2)=CC=C1O	NDSRI	DCTI-C-3097	2-hydroxy-5-(1-hydroxy-2-(nitroso(4-phenylbutan-2-yl)amino)ethyl)benzamide	2820170-74-7	itrosolabetalol mixture of iso	C19H23N3O4	357.41
1535		Labetalol impurity D	CC(NCC(C1=CC=C(C(C(N)=O)=C1)O)O)CCC2CCCCC2	IMPURITY	DCTI-C-3253	5-(2-((4-cyclohexylbutan-2-yl)amino)-1-hydroxyethyl)-2-hydroxybenzamide	NA	NA	C19H30N2O3	334.46
1536		5,5-Dibromoacetyl Salicylamide	O=C(C(Br)Br)C1=CC(C(N)=O)=C(O)C=C1	Impurity	DCTI-C-2481	5-(2,2-dibromoacetyl)-2-hydroxybenzamide	NA	NA	C9H7Br2NO3	336.97
1537		N-Methyl rac-Lacosamide	O=C(N(CC1=CC=CC=C1)C)C(COC)NC(C)=O	impurity	DCTI-C-2054	2-acetamido-N-benzyl-3-methoxy-N-methylpropanamide.	388619-64-5	NA	C14H20N2O3	264.33

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1538	Lacosamide	Lamivudine Enantiomer	O=C1N([C@@H]2O[C@H](CO)SC2)C=CC(N)=N1	Impurity	DCTI-C-532	4-amino-1-((2S,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	134680-32-3	Lamivudine Enantiomer; (+)-BCH 189; 3TC; BCH 189; (+)-Ent-lamivudine; NSC 620753	C8H11N3O3S	229.25
1539		Lamivudine impurity H	O=C1N=C(C=CN1[C@H]2O[C@@H](CO)[S@@](C2)=O)N	Impurity	DCTI-C-2686	4-amino-1-((2R,3R,5S)-2-(hydroxymethyl)-3-oxido-1,3-oxathiolan-5-yl) pyrimidin-2(1H)-one	160552-54-5	Lamivudine (R)-Sulfoxide; Lamivudine EP impurity H	C8H11N3O4S	245.25
1540		Lamivudine impurity J	OC[C@H]1SC[C@@H](N2C=CC(NC2=O)=O)O1	Impurity	DCTI-C-2687	1-((2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl) pyrimidine-2,4(1H,3H)-dione	145986-07-8	Lamivudine Dione impurity; Lamivudine EP impurity J; (2R-cis)-1-[2-(Hydroxymethyl)-1,3-oxathiolan-5-yl]-2,4(1H,3H)-pyrimidinedione	C8H10N2O4S	230.24
1541		Lamivudine impurity G	O=C1N=C(C=CN1[C@H]2O[C@@H](CO)[S@](C2)=O)N	Impurity	DCTI-C-2688	4-amino-1-((2R,3S,5S)-2-(hydroxymethyl)-3-oxido-1,3-oxathiolan-5-yl) pyrimidin-2(1H)-one	160552-55-6	Lamivudine (S)-Sulfoxide; Lamivudine EP impurity G	C8H11N3O4S	245.25
1542		Lamivudine EP impurity B	O=C1N=C(N)C=CN1[C@]2([H])CS[C@](CO)([H])O2.O=C3N=C(N)C=CN3[C@@]4([H])CS[C@@](CO)([H])O4	Impurity	DCTI-C-2867	4-amino-1-((2RS,5RS)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	131086-22-1	trans-Lamivudine	C8H11N3O3S	229.25

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1543	Laninamivir	Laninamivir Dioctanoate IMP	[NH3+]/C(N)=N\[C@H]([C@H]1NC(C)=O)C=C(C(O)=O)O[C@]1([C@@H]([C@@H](COC(CCCCCCC)=O)OC(CCCCCCC)=O)OC)[H].O=C([O-])C(F)(F)F	Impurity	DCTI-C-3782	2-((2R,3R,4S)-3-acetamido-6-carboxy-2-((1S,2R)-1-methoxy-2,3-bis(octanoyloxy)propyl)-3,4-dihydro-2H-pyran-4-yl)guanidinium 2,2,2-trifluoroacetate	1169517-07-0 (Free Base)	Laninamivir Dioctanoate(TFA salt)	C29H50N4O9 [Free Base] C31H51F3N4O11[TFA salt]	598.74 [Free Base] 712.76 [TFA salt]
1544		lapatinib Impurity 5	O=C(CCl)C1=CC(C(N)=O)=C(O)C=C1	Impurity	DCTI-C-2618	5-(2-chloroacetyl)-2-hydroxybenzamide	33254-88-5	5-chloroacetyl saklictyliamide	C9H8ClNO3	213.62
1545		Lapatinib Impurity G	FC1=CC(COC2=CC=C(NC3=C4C=C(C5=CC=C(C=O)O5)C=CC4=NC=N3)C=C2Cl)=CC=C1	Impurity	DCTI-C-2619	5-(4-((3-chloro-4-((3-fluorobenzyl)oxy)phenyl)amino)quinazolin-6-yl)furan-2-carbaldehyde	231278-84-5	Lapatinib Impurity 9; Lapatinib Formyl Impurity	C26H17ClFN3O3	473.88
1546		Lapatinib Impurities F	FC1=CC(COC2=CC=C(NC3=C4C=C(C5=CC=C(CO)O5)C=CC4=NC=N3)C=C2Cl)=CC=C1	Impurity	DCTI-C-2620	(5-(4-((3-chloro-4-((3-fluorobenzyl)oxy)phenyl)amino)quinazolin-6-yl)furan-2-yl)methanol	320337-48-2	Lapatinib Impurity 8; Des(sulfonylethyl)aminoHydroxyLapatinib	C26H19ClFN3O3	475.9
1547		Lapatinib Impurity B	FC1=CC(COC2=CC=C(NC3=C4C=C(C5=CC=C(CN)O5)C=CC4=NC=N3)C=C2Cl)=CC=C1	MEtabolite	DCTI-C-2621	6-(5-(aminomethyl)furan-2-yl)-N-(3-chloro-4-((3-fluorobenzyl)oxy)phenyl)quinazolin-4-amine	697299-82-4	N-De[2-(Methylsulfonyl)ethyl] Lapatinib;	C26H20ClFN4O2	474.91

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1548	Lapatinib	Lapatinib Impurity H	O=S(CCN(CC1=CC=C(C2=CC3=C(NC4=CC=C(OCC5=CC=CC(F)=C5)C(Cl)=C4)N=CN=C3C=C2)O1)CC6=CC=C(C7=CC8=C(NC9=CC=C(OCC%10=CC=CC(F)=C%10)C(Cl)=C9)N=CN=C8C=C7)O6)(C)=O	Impurity	DCTI-C-2622	N-(3-chloro-4-((3-fluorobenzyl)oxy)phenyl)-6-(5-((((5-(4-((3-chloro-4-((3-fluorobenzyl)oxy)phenyl)amino)quinazolin-6-yl)furan-2-yl)methyl)(2-(methylsulfonyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-amine	2172855-57-9	NA	C55H43Cl2F2N7O6	1038.94
1549		Lapatinib Impurity I	O=S(CCNCC1=CC=C(C2=CC3=C(NC4=CC=C(OCC5=CC=CC(F)=C5)C=C4)N=CN=C3C=C2)O1)(C)=O	Impurity	DCTI-C-2623	N-(4-((3-fluorobenzyl)oxy)phenyl)-6-(5-(((2-(methylsulfonyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-amine	633370-23-7	NA	C29H27FN4O4S	546.62
1550		Lapatinib Impurity A	O=S(CCNCC1=CC=C(C2=CC3=C(NC4=CC=C(O)C(Cl)=C4)N=CN=C3C=C2)O1)(C)=O	MEtabolite	DCTI-C-2624	2-chloro-4-((6-(5-(((2-(methylsulfonyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-yl)amino)phenol	1268997-70-1	NA	C22H21ClN4O4S	472.94
1551		Lapatinib Impurity E	O=S(CCNCC1=CC=C(C2=CC3=C(NC4=CC=C(OCC5=CC=C(F)C=C5)C(Cl)=C4)N=CN=C3C=C2)O1)(C)=O	Impurity	DCTI-C-2625	N-(3-chloro-4-((4-fluorobenzyl)oxy)phenyl)-6-(5-(((2-(methylsulfonyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-amine	1026818-86-9	NA	C29H26ClFN4O4S	581.06

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1552		Lapatinib Impurity D	O=S(CCNCC1=CC=C(C2=CC3=C(NC4=CC=C(OCC5=CC=CC=C5F)C(Cl)=C4)N=CN=C3C=C2)O1)(C)=O	Impurity	DCTI-C-2626	N-(3-chloro-4-((2-fluorobenzyl)oxy)phenyl)-6-(5-(((2-(methylsulfonyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-amine	1393112-45-2	NA	C29H26ClFN4O4S	581.06
1553		Lapatinib nitroso impurity	CS(=O)(CCN(N=O)CC1=CC=C(C2=CC(C(NC3=CC=C(OCC4=CC(F)=CC=C4)C(Cl)=C3)=NC=N5)=C5C=C2)O1)=O	NDSRI	DCTI-C-2588	N-((5-(4-((3-chloro-4-((3-fluorobenzyl)oxy)phenyl)amino)quinazolin-6-yl)furan-2-yl)methyl)-N-(2-(methylsulfonyl)ethyl)nitrous amide	NA	NA	C29H25ClFN5O5S	610.06
1554		LAPATINIB SELATINIB IMPURITY	O=S(CCNCC1=CC=C(C2=CC3=C(NC4=CC=C(OCC5=CC=CC(F)=C5)C(Cl)=C4)N=CN=C3C=C2)O1)C	Impurity	DCTI-C-3047	N-(3-chloro-4-((3-fluorobenzyl)oxy)phenyl)-6-(5-(((2-(methylsulfinyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-amine	1275595-86-2	Selatinib	C29H26ClFN4O3S	565.06
1555		M8 Metabolite of Lasmiditan	CN1CCC(C(C2=NC(NC(C3=C(F)C=C(F)C=C3F)=O)=CC=C2)O)CC1	MEtabolite	DCTI-C-2783	2,4,6-trifluoro-N-(6-(hydroxy(1-methylpiperidin-4-yl)methyl)pyridin-2-yl)benzamide	NA	Lasmiditan Hydroxy Impurity	C19H20F3N3O2	379.38
1556		M7 Metabolite of Lasmiditan	CN1C(CC(C(C2=NC(NC(C3=C(F)C=C(F)C=C3F)=O)=CC=C2)=O)CC1)=O	MEtabolite	DCTI-C-2786	2,4,6-trifluoro-N-(6-(1-methyl-2-oxopiperidine-4-carbonyl)pyridin-2-yl)benzamide	NA	Lasmiditan Oxopiperidine Impurity	C19H16F3N3O3	391.35
1557		M3 Metabolite of Lasmiditan	C[N+]1([O-])CCC(C(C2=NC(NC(C3=C(F)C=C(F)C=C3F)=O)=CC=C2)=O)CC1	MEtabolite	DCTI-C-2784	1-methyl-4-(6-(2,4,6-trifluorobenzamido)picolinoyl)piperidine 1-oxide	NA	Lasmiditan Piperidine N-oxide	C19H18F3N3O3	393.37

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1558	Larotrectinib	(3R)-N-[5-[(2R)-2-(2,5-difluorophenyl)pyrrolidin-1-yl]pyrazolo[1,5-a]pyrimidin-3-yl]-3-Hydroxypyrrolidine-1-carboxamide	FC1=C(C=C(C=C1)F)[C@@H]2N(C3=NC4=C(C=NN4C=C3)NC(N5CC[C@H](C5)O)=O)CCC2	Impurity	DCTI-C-3907	(R)-N-(5-((R)-2-(2,5-difluorophenyl)pyrrolidin-1-yl)pyrazolo[1,5-a]pyrimidin-3-yl)-3-hydroxypyrrolidine-1-carboxamide	1223404-68-9	Larotrectinib R,R Diastereomer	C21H22F2N6O2	428.44
1559	**Latrepirdine**	Latrepirdine Impurity 2	CC1=CC2=C(N(CCC3=CC=C(C(O)=O)N=C3)C4=C2CN(C)CC4)C=C1	Impurity	DCTI-C-2667	5-(2-(2,8-dimethyl-1,2,3,4-tetrahydro-5H-pyrido [4,3-b]indol-5-yl)ethyl)picolinic acid	1147893-81-9	NA	C21H23N3O2	349.43
1560		Latrepirdine Impurity-1	CC1=CC=C(CCN2C3=C(CNCC3)C4=C2C=CC(C)=C4)C=N1	Impurity	DCTI-C-2668	8-methyl-5-(2-(6-methylpyridin-3-yl)ethyl)-2,3,4,5-tetrahydro-1H-pyrido[4,3-b]indole	23224-24-0	N-Desmethyl Latrepirdine	C20H23N3	305.43
1561		Latrepirdine N-oxide	CC1=CC=C(CCN2C(CC3)=C(CN3(C)=O)C4=C2C=CC(C)=C4)C=N1	Impurity	DCTI-C-2669	2,8-dimethyl-5-(2-(6-methylpyridin-3-yl)ethyl)-2,3,4,5-tetrahydro-1H-pyrido[4,3-b]indole 2-oxide	1147893-84-2	NA	C21H25N3O	335.45
1562	Lenacapavir	2-((3bS,4aR)-5,5-difluoro-3-(trifluoromethyl)-3b,4,4a ,5-tetrahydro-2H-cyclopropa[3,4]cyclopenta[1,2-c] pyrazol-2-yl)acetic acid	FC1(F)C2=NN(CC(O)=O)C(C(F)(F)F)=C2[C@@H]3[C@H]1C3	Impurity	DCTI-C-3910	2-((3bS,4aR)-5,5-difluoro-3-(trifluoromethyl)-3b,4,4a,5-tetrahydro-2H-cyclopropa[3,4]cyclopenta[1,2-c]pyrazol-2-yl)acetic acid	1620056-83-8	Lenacapavir Pyrazole acetic acid Impurity	C10H7F5N2O2	282.17

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1563		4-Nitrophthalide (Lenalidomide KSM lactone impurity)	O=C1OCC2=C([N+]([O-])=O)C=CC=C21	Impurity	DCTI-C-060	4-nitroisobenzofuran-1(3H)-one	65399-18-0	4-Nitrophthalide	C8H5NO4	179.13
1564		Methyl 2-(bromomethyl)-6-nitrobenzoate	O=C(OC)C1=C([N+]([O-])=O)C=CC=C1CBr	Impurity	DCTI-C-178	methyl 2-(bromomethyl)-6-nitrobenzoate	61940-21-4	NA	C9H8BrNO4	274.07
1565		Methyl 2-(bromomethyl)-4-nitrobenzoate	O=C(OC)C1=CC=C([N+]([O-])=O)C=C1CBr	Impurity	DCTI-C-179	methyl 2-(bromomethyl)-4-nitrobenzoate	133446-99-8	NA	C9H8BrNO4	274.07
1566		Methyl 2-(bromomethyl)-5-nitrobenzoate	O=C(OC)C1=CC([N+]([O-])=O)=CC=C1CBr	Impurity	DCTI-C-180	methyl 2-(bromomethyl)-5-nitrobenzoate	90725-68-1	NA	C9H8BrNO4	274.07
1567		Lenalidomide Amadori impurity	O=C1CCC(N2C(C(C=CC=C3NCC4(O)[C@@H](O)[C@H](O[C@@H]5O[C@H](CO)[C@H](O)[C@H](O)[C@H]5O)[C@@H](CO)O4)=C3C2)=O)C(N1)=O	MEtabolite	DCTI-C-1314	3-(4-((((3S,4S,5R)-2,3-dihydroxy-5-(hydroxymethyl)-4-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydrofuran-2-yl)methyl)amino)-1-oxoisoindolin-2-yl)piperidine-2,6-dione	NA	NA	C25H33N3O13	583.55
1568		Lenalidomide open chain Amadori impurity	O=C1C2=CC=CC(NCC([C@H](O)[C@@H](O[C@@H]3O[C@H](CO)[C@H](O)[C@H](O)[C@H]3O)[C@H](CO)O)=O)=C2CN1C4CCC(NC4=O)=O	MEtabolite	DCTI-C-1383	3-(1-oxo-4-(((3R,4S,5S)-3,5,6-trihydroxy-2-oxo-4-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)hexyl)amino)isoindolin-2-yl)piperidine-2,6-dione	NA	NA	C25H33N3O13	583.55

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1569	Lenalidomide	Lenalidomide Impurity-3	O=C1N(C(CCC(O)=O)C(O)=O)CC2=C(N)C=CC=C21	Impurity	DCTI-C-383	2-(4-amino-1-oxoisoindolin-2-yl)pentanedioic acid	295357-66-3	NA	C13H14N2O5	278.26
1570		(S)-4-amino-5-methoxy-5-oxopentanoic acid (Mono methyl ester)	O=C(O)CC[C@H](N)C(OC)=O	impurity	DCTI-C-1143	(S)-4-amino-5-methoxy-5-oxopentanoic acid	1802323	L-Glutamic Acid 1-methyl Ester	C6H11NO4	161.16
1571		(S)-4-amino-5-ethoxy-5-oxopentanoic acid (Mono ethyl ester)	O=C(O)CC[C@H](N)C(OCC)=O	impurity	DCTI-C-1144	(S)-4-amino-5-ethoxy-5-oxopentanoic acid	52454-78-1	L-Glutamic Acid alpha ethyl ester; L-Glutamicacid, 1-ethyl ester	C7H13NO4	175.18
1572		Methyl 2-(chloromethyl)-3-nitrobenzoate	O=C(OC)C1=CC=CC([N+]([O-])=O)=C1CCl	Impurity	DCTI-C-627	methyl 2-(chloromethyl)-3-nitrobenzoate	1218910-61-2	NA	C9H8ClNO4	229.62
1573		3-(4-nitroso-1-oxoisoindolin-2-yl)piperidine-2,6-dione	O=C(C(N(CC1=C2C=CC=C1N=O)C2=O)CC3)NC3=O	NDSRI	DCTI-C-2930	3-(4-nitroso-1-oxoisoindolin-2-yl)piperidine-2,6-dione	NA	NA	C13H11N3O4	273.25
1574		4-Nitro Lenalidomide	O=C1C2=CC=CC([N+]([O-])=O)=C2CN1C3C(NC(CC3)=O)=O	Impurity	DCTI-C-2942	3-(4-nitro-1-oxoisoindolin-2-yl)piperidine-2,6-dione	827026-45-9	Lenalidomide Impurity B	C13H11N3O5	289.25

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1575		Lenalidomide Impurity 19	O=C1C2=CC=CC(N)=C2CN1C(C(OCC)=O)CCC(OCC)=O	Impurity	DCTI-C-2975	diethyl 2-(4-amino-1-oxoisoindolin-2-yl)pentanedioate	1063995-41-4	Lenalidomide Impurity 13	C17H22N2O5	334.37
1576		N-Acetyl Lenalidomide	O=C(NC1=O)CCC1N(C2=O)CC3=C2C=CC=C3NC(C)=O	Impurity	DCTI-C-3454	N-(2-(2,6-dioxopiperidin-3-yl)-1-oxoisoindolin-4-yl)acetamide	1421593-80-7	Lenalidomide Impurity 19	C15H15N3O4	301.3
1577		Lenalidomide N-(3-Aminopropanoyl) Hydrochloride	NCCC(NC1=CC=CC2=C1CN(C(CC3)C(NC3=O)=O)C2=O)=O.Cl	Impurity	DCTI-C-3452	3-amino-N-(2-(2,6-dioxopiperidin-3-yl)-1-oxoisoindolin-4-yl)propanamide hydrochloride	1407490-89-4	Lenalidomide-CO-C2-amine HCl	HCl Salt: C16H19ClN4O4 Free Base: C16H18N4O4	HCl Salt: 366.80 Free Base: 330.34
1578		(S)-5-amino-2-(4-nitro-1-oxoisoindolin-2-yl)-5-oxopentanoic acid	O=C(O)[C@H](CCC(N)=O)N(CC1=C2C=CC=C1[N+]([O-])=O)C2=O	Impurity	DCTI-C-3453	(S)-5-amino-2-(4-nitro-1-oxoisoindolin-2-yl)-5-oxopentanoic acid	874760-71-1	1.Lenalidomide impurity 13 2.n-(1-oxo-4-nitroisoindolin-2-yl)-l-glutamine	C13H13N3O6	307.26
1579		tert-butyl (S)-5-amino-2-(4-nitro-1-oxoisoindolin-2-yl)-5-oxopentanoate	O=C(OC(C)(C)C)[C@H](CCC(N)=O)N(CC1=C2C=CC=C1[N+]([O-])=O)C2=O	Impurity	DCTI-C-3455	tert-butyl (S)-5-amino-2-(4-nitro-1-oxoisoindolin-2-yl)-5-oxopentanoate	874760-70-0	NA	C17H21N3O6	363.37
1580		2-(4-nitro-1-oxoisoindolin-2-yl)pentanediamide	O=C(N)C(N(CC1=C2C=CC=C1[N+]([O-])=O)C2=O)CCC(N)=O	Impurity	DCTI-C-3476	2-(4-nitro-1-oxoisoindolin-2-yl)pentanediamide	827026-44-8	Lenalidomide impurity 19	C13H14N4O5	306.28
1581		2-(4-amino-1-oxoisoindolin-2-yl)pentanediamide	O=C(N)C(N(CC1=C2C=CC=C1N)C2=O)CCC(N)=O	Impurity	DCTI-C-3475	2-(4-amino-1-oxoisoindolin-2-yl)pentanediamide	2197414-55-2	Lenalidomide impurity 7	C13H16N4O3	276.3
1582		Methyl 2-(hydroxymethyl)-3-nitrobenzoate	COC(C1=C(CO)C([N+]([O-])=O)=CC=C1)=O	IMPURITY	DCTI-C-3496	methyl 2-(hydroxymethyl)-3-nitrobenzoate	1628915-10-5	Benzoic acid, 2-(hydroxymethyl)-3-nitro-, methyl ester	C9H9NO5	211.17
1583		tert-butyl 5-amino-4-(4-nitro-1-oxoisoindolin-2-yl)-5-oxopentanoate	NC(C(N(CC1=C2C=CC=C1[N+]([O-])=O)C2=O)CCC(OC(C)(C)C)=O)=O	IMPURITY	DCTI-C-3497	tert-butyl 5-amino-4-(4-nitro-1-oxoisoindolin-2-yl)-5-oxopentanoate	NA	NA	C17H21N3O6	363.37

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1584		Lenalidomide N-Hydroxy Impurity	O=C(NC1=O)CCC1N(C2=O)CC3=C2C=CC=C3NO	Impurity	DCTI-C-3545	3-(4-(hydroxyamino)-1-oxoisoindolin-2-yl)piperidine-2,6-dione	NA	NA	C13H13N3O4	275.26
1585		Lenvatinib N-Oxide	ClC1=C(NC(NC2CC2)=O)C=CC(OC3=CC=[N+]([O-])C4=CC(OC)=C(C(N)=O)C=C43)=C1	MEtabolite	DCTI-C-275	6-carbamoyl-4-(3-chloro-4-(3-cyclopropylureido)phenoxy)-7-methoxyquinoline 1-oxide	NA	6-Quinolinecarboxamide; Lenvatinib Metabolite M3	C21H19ClN4O5	442.86
1586		Lenvatinib Cyano Impurity	COC1=C(C#N)C=C2C(N=CC=C2OC3=CC(Cl)=C(NC(NC4CC4)=O)C=C3)=C1	impurity	DCTI-C-2055	1-(2-chloro-4-((6-cyano-7-methoxyquinolin-4-yl)oxy)phenyl)-3-cyclopropylurea	1882873-21-3	Urea, N-[2-chloro-4-[(6-cyano-7-methoxy-4-quinolinyl)oxy]phenyl]-N'-cyclopropyl-	C21H17ClN4O3	408.84
1587		Lenvatinib N-Ethyl impurity	ClC1=C(NC(NCC)=O)C=CC(OC2=CC=NC3=C2C=C(C(N)=O)C(OC)=C3)=C1	impurity	DCTI-C-1829	4-(3-chloro-4-(3-ethylureido)phenoxy)-7-methoxyquinoline-6-carboxamide.	NA	NA	(free base): C20H19ClN4O4	(Free base): 414.85
1588		Lenvatinib Phenyl carbamate impurity/LNT2	ClC1=C(NC(OC2=CC=CC=C2)=O)C=CC(OC3=CC=NC4=C3C=C(C(N)=O)C(OC)=C4)=C1	impurity	DCTI-C-1830	phenyl (4-((6-carbamoyl-7-methoxyquinolin-4-yl)oxy)-2-chlorophenyl)carbamate	NA	Phenyloxy Descyclopropylamino Lenvatinib	(free base): C24H18ClN3O5	(Free base): 463.87

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1589		Lenvatinib Dimethyl Impurity	ClC1=C(NC(N(C)C)=O)C=CC(OC2=CC=NC3=C2C=C(C(N)=O)C(OC)=C3)=C1	impurity	DCTI-C-1831	4-(3-chloro-4-(3,3-dimethylureido)phenoxy)-7-methoxyquinoline-6-carboxamide	NA	Dimethylamine Lenvatinib	C20H19ClN4O4	414.85
1590		4,8-dichloro-7-methoxyquinoline-6-carboxamide	COC1=C(C(N)=O)C=C2C(N=CC=C2Cl)=C1Cl	Impurity	DCTI-C-1728	4,8-dichloro-7-methoxyquinoline-6-carboxamide	NA	NA	C11H8Cl2N2O2	271.1
1591		4-Amino-2,3,6-Trichlorophenol	NC1=CC(Cl)=C(O)C(Cl)=C1Cl	Impurity	DCTI-C-1729	4-Amino-2,3,6-Trichlorophenol	NA	Lenvatinib Impurity	C6H4Cl3NO	212.45
1592		Methyl 7-methoxy-4-oxo-1,4-dihydroquinoline-6-carboxylate / Lenvatinib related Impurity	COC1=C(C(OC)=O)C=C2C(NC=CC2=O)=C1	Impurity	DCTI-C-1730	methyl 7-methoxy-4-oxo-1,4-dihydroquinoline-6-carboxylate	NA	NA	C12H11NO4	233.22
1593		Lenvatinib chloro impurity	COC1=C(C(N)=O)C=C2C(N=CC=C2Cl)=C1	Impurity	DCTI-C-1731	4-chloro-7-methoxyquinoline-6-carboxamide	NA	NA	C11H9ClN2O2	236.66
1594		Lenvatinib Monomethyl impurity	COC1=C(C(NC)=O)C=C2C(N=CC=C2Cl)=C1	Impurity	DCTI-C-1732	4-chloro-7-methoxy-N-methylquinoline-6-carboxamide	NA	NA	C12H11ClN2O2	250.68
1595		4-amino-2,3,5,6-tetrachlorophenol	OC1=C(Cl)C(Cl)=C(N)C(Cl)=C1Cl	Impurity	DCTI-C-1733	4-amino-2,3,5,6-tetrachlorophenol	NA	NA	C6H3Cl4NO	246.9

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1596	Lenvatinib	2,4-dichloro-7-methoxyquinoline-6-carboxamide	COC1=C(C(N)=O)C=C2C(N=C(Cl)C=C2Cl)=C1	Impurity	DCTI-C-1734	2,4-dichloro-7-methoxyquinoline-6-carboxamide	NA	Lenvatinib Impurity	C11H8Cl2N2O2	271.1
1597		4-Amino-2,3,5-Trichlorophenol	NC1=C(Cl)C=C(O)C(Cl)=C1Cl	Impurity	DCTI-C-1735	4-Amino-2,3,5-Trichlorophenol	NA	NA	C6H4Cl3NO	212.45
1598		3,4-dichloro-7-methoxyquinoline-6-carboxamide	COC1=C(C(N)=O)C=C2C(N=CC(Cl)=C2Cl)=C1	Impurity	DCTI-C-1736	3,4-dichloro-7-methoxyquinoline-6-carboxamide	NA	NA	C11H8Cl2N2O2	271.1
1599		4-(4-amino-3-hydroxyphenoxy)-7-methoxyquinoline-6-carboxamide	COC1=C(C(N)=O)C=C2C(N=CC=C2OC3=CC(O)=C(N)C=C3)=C1	Impurity	DCTI-C-1737	4-(4-amino-3-hydroxyphenoxy)-7-methoxyquinoline-6-carboxamide	NA	NA	C17H15N3O4	325.32
1600		Lenvatinib Impurity 2	ClC1=C(NC(N)=O)C=CC(OC2=CC=NC3=CC(OC)=C(C(O)=O)C=C32)=C1	Impurity	DCTI-C-276	4-(3-chloro-4-ureidophenoxy)-7-methoxyquinoline-6-carboxylic acid	NA	Lenvatinib M1; Descyclopropyl Lenvatinib	C18H14ClN3O5	387.78
1601		Lenvatinib Impurity-4	NC(C1=C(OC)C=C(N=CC=C2OC3=CC(Cl)=C(NC4=CC=NC5=C4C=C(C(N)=O)C(OC)=C5)C=C3)C2=C1)=O	Impurity	DCTI-C-311	4-(4-((6-carbamoyl-7-methoxyquinolin-4-yl)amino)-3-chlorophenoxy)-7-methoxyquinoline-6-carboxamide	NA	NA	C28H22ClN5O5	543.96
1602		6-Quinolinecarboxamide, 4-(4-amino-3-chlorophenoxy)-7-methoxy	NC(C1=C(OC)C=C(N=CC=C2OC3=CC(Cl)=C(N)C=C3)C2=C1)=O	Impurity	DCTI-C-312	4-(4-amino-3-chlorophenoxy)-7-methoxyquinoline-6-carboxamide	417722-93-1	NA	C17H14ClN3O3	343.77

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1603		Des cyclopropyl Lenvatinib	NC(C1=C(OC)C=C(N=CC=C2OC3=CC(Cl)=C(NC(N)=O)C=C3)C2=C1)=O	MEtabolite	DCTI-C-313	4-(3-chloro-4-ureidophenoxy)-7-methoxyquinoline-6-carboxamide	417719-51-8	Lenvatinib M1	C18H15ClN4O4	386.79
1604		Lenvatinib Impurity-1	OC(C1=C(OC)C=C(N=CC=C2OC3=CC(Cl)=C(NC(NC4CC4)=O)C=C3)C2=C1)=O	Impurity	DCTI-C-314	4-(3-chloro-4-(3-cyclopropylureido)phenoxy)-7-methoxyquinoline-6-carboxylic acid	417717-21-6	Desamino Hydroxy Lenvatinib	C21H18ClN3O5	427.84
1605		Lenvatinib Impurity-A	OC1=CC(Cl)=C(NC(NC2CC2)=O)C=C1	Impurity	DCTI-C-315	1-(2-chloro-4-hydroxyphenyl)-3-cyclopropylurea	796848-79-8	Desquinolinyl Lenvatinib	C10H11ClN2O2	226.66
1606		Lenvatinib Methyl Ester Impurity	O=C(OC)C1=C(OC)C=C(N=CC=C2OC3=CC(Cl)=C(NC(NC4CC4)=O)C=C3)C2=C1	Impurity	DCTI-C-316	methyl 4-(3-chloro-4-(3-cyclopropylureido)phenoxy)-7-methoxyquinoline-6-carboxylate	417717-20-5	NA	C22H20ClN3O5	441.87
1607		Lenvatinib Impurity-10	O=C(OC)C1=C(OC)C=C(N=CC=C2OC3=CC(Cl)=C(NC(N)=O)C=C3)C2=C1	Impurity	DCTI-C-384	methyl 4-(3-chloro-4-ureidophenoxy)-7-methoxyquinoline-6-carboxylate	NA	NA	C19H16ClN3O5	401.8
1608		4-hydroxy-7-methoxyquinoline-6-carboxamide	OC1=CC=NC2=CC(OC)=C(C(N)=O)C=C21	Impurity	DCTI-C-2948	4-hydroxy-7-methoxyquinoline-6-carboxamide	2110414-05-4	NA	C11H10N2O3	218.21
1609		4-(3-chloro-4-(3-methylureido)phenoxy)-7-methoxyquinoline-6-carboxamide	O=C(C1=C(OC)C=C2N=CC=C(OC3=CC=C(NC(NC)=O)C(Cl)=C3)C2=C1)N	Impurity	DCTI-C-2978	4-(3-chloro-4-(3-methylureido)phenoxy)-7-methoxyquinoline-6-carboxamide	417719-45-0	Methyl-Lenvatinib; Lenvatinib Impurity 14	C19H17ClN4O4	400.82

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1610		4-(3-(3-chloro-4-(3-cyclopropylureido)phenoxy)-4-(3-cyclopropylureido)phenoxy)-7-methoxyquinoline-6-carboxamide	O=C(C1=C(OC)C=C2N=CC=C(OC3=CC=C(NC(NC4CC4)=O)C(OC5=CC=C(NC(NC6CC6)=O)C(Cl)=C5)=C3)C2=C1)N	Impurity	DCTI-C-3102	4-(3-(3-chloro-4-(3-cyclopropylureido)phenoxy)-4-(3-cyclopropylureido)phenoxy)-7-methoxyquinoline-6-carboxamide	2613141-84-5	Lenvatinib impurity 5; Lenvatinib Dimer LEN-02	C31H29ClN6O6	617.06
1611		Lenvatinib N-Nitroso impurity-2	NC(C(C(OC)=C1)=CC2=C1N=CC=C2OC3=CC=C(NC(N(N=O)C4CC4)=O)C(Cl)=C3)=O	NDSRI	DCTI-C-3694	4-(3-chloro-4-(3-cyclopropyl-3-nitrosoureido)phenoxy)-7-methoxyquinoline-6-carboxamide	NA	NA	C21H18ClN5O5	455.86
1612		4-amino-3-chlorophenyl (4-((6-carbamoyl-7-methoxyquinolin-4-yl)oxy)-2-chlorophenyl)carbamate. TFA	O=C(OC1=CC=C(N)C(Cl)=C1)NC2=CC=C(OC3=CC=NC4=CC(OC)=C(C(N)=O)C=C34)C=C2Cl.FC(F)(F)C(O)=O	Impurity	DCTI-C-1762	4-amino-3-chlorophenyl (4-((6-carbamoyl-7-methoxyquinolin-4-yl)oxy)-2-chlorophenyl)carbamate. TFA	NA	Lenvatinib impurity	$C_{24}H_{18}Cl_2N_4O_5$ (Free Base) $C_{26}H_{19}Cl_2F_3N_4O_7$ (TFA Salt)	513.33 (Free base) 627.35 (TFA Salt)
1613		4-amino-3-chlorophenyl 4-(4-amino-3-chlorophenoxy)-7-methoxyquinoline-6-carboxamide	O=C(C1=C(OC)C=C2N=CC=C(OC3=CC=C(N)C(Cl)=C3)C2=C1)OC4=CC=C(N)C(Cl)=C4	Impurity	DCTI-C-1763	4-amino-3-chlorophenyl 4-(4-amino-3-chlorophenoxy)-7-methoxyquinoline-6-carboxamide	NA	Lenvatinib impurity	$C_{23}H_{17}Cl_2N_3O_4$	470.31
1614	**Lercanidipine**	R-Lercanidipine	O=C(C1=C(C)NC(C)=C(C(OC)=O)[C@H]1C2=CC=CC([N+]([O-])=O)=C2)OC(C)(C)CN(CCC(C3=CC=CC=C3)C4=CC=CC=C4)C	Impurity	DCTI-C-502	3-(1-((3,3-diphenylpropyl)(methyl)amino)-2-methylpropan-2-yl) 5-methyl (R)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C36H41N3O6	611.74
1615		S-Lercanidipine	O=C(C1=C(C)NC(C)=C(C(OC)=O)[C@@H]1C2=CC=CC([N+]([O-])=O)=C2)OC(C)(C)CN(CCC(C3=CC=CC=C3)C4=CC=CC=C4)C	Impurity	DCTI-C-503	3-(1-((3,3-diphenylpropyl)(methyl)amino)-2-methylpropan-2-yl) 5-methyl (S)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C36H41N3O6	611.74

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1616		Lercanidipine Impurity 10	OC(C1=C(C)NC(C)=C(C(O)=O)C1C2=CC=CC([N+](O-])=O)=C2)=O	Impurity	DCTI-C-3349	2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylic acid	74936-81-5	NIFEDIPINE IMPURITY 3	C15H14N2O6	318.28
1617		Lercanidipine Dimer Impurity	CC1=C(C(OC(C)(C)CN(C)CCC(C2=CC=CC=C2)C3=CC=CC=C3)=O)C(C4=CC=CC([N+](O-])=O)=C4)C(C(OC(C)(C)CN(C)CCC(C5=CC=CC=C5)C6=CC=CC=C6)=O)=C(C)N1	Impurity	DCTI-C-3682	bis(1-((3,3-diphenylpropyl)(methyl)amino)-2-methylpropan-2-yl) 2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C55H64N4O6	877.14
1618	Levetiracetam	Levetiracetam Enantiomer	CC[C@@H](N1C(CCC1)=O)C(N)=O	impurity	DCTI-C-1206	(R)-2-(2-oxopyrrolidin-1-yl)butanamide	103765-01-1	R-Levetiracetam; (R)-Etiracetam; UCB-L 060	C8H14N2O2	170.21
1619		Ethyl 2-(2-oxopyrrolidin-1-yl)butanoate	CCC(N1C(CCC1)=O)C(OCC)=O	impurity	DCTI-C-1207	ethyl 2-(2-oxopyrrolidin-1-yl)butanoate	86815-10-3	NA	C10H17NO3	199.25
1620		rac-Levetiracetam / Etiracetam	NC(C(CC)N1C(CCC1)=O)=O	impurity	DCTI-C-1416	2-(2-oxopyrrolidin-1-yl)butanamide	33996-58-6	UCB 6474	C8H14N2O2	170.21
1621		2-(2-Oxopyrrolidin-1-yl)butanoic acid	O=C1CCCN1C(C(O)=O)CC	impurity	DCTI-C-1409	2-(2-oxopyrrolidin-1-yl)butanoic acid	67118-31-4	Levetiracetam Carboxylic Acid	C8H13NO3	171.2
1622		Isobutyl 2-(2-oxopyrrolidin-1-yl) butanoate	CCC(N1C(CCC1)=O)C(OCC(C)C)=O	impurity	DCTI-C-1208	isobutyl 2-(2-oxopyrrolidin-1-yl)butanoate	NA	NA	C12H21NO3	227.3

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1623		methyl 2-(2-oxopyrrolidin-1-yl) butanoate	CCC(N1C(CCC1)=O)C(OC)=O	impurity	DCTI-C-1209	methyl 2-(2-oxopyrrolidin-1-yl)butanoate	33978-83-5	NA	C9H15NO3	185.22
1624		Levetiracetam acid	O=C1CCCN1[C@@H](CC)C(O)=O	MEtabolite	DCTI-C-3271	(S)-2-(2-oxopyrrolidin-1-yl)butanoic acid	102849-49-0	(2S)-2-(2-oxopyrrolidin-1-yl)butanoic acid, Levetiracetam Carboxylic Acid	C8H13NO3	171.2
1625	**Levomepromazine**	O-Desmethyl-Levomepromazine	OC(C=C1N2C[C@H](C)CN(C)C)=CC=C1SC3=C2C=CC=C3	MEtabolite	DCTI-C-3311	(R)-10-(3-(dimethylamino)-2-methylpropyl)-10H-phenothiazin-2-ol	81607-63-8	NA	C18H22N2OS	314.45
1626		N-Desmethyl-Levomepromazine	C[C@@H](CN1C2=C(C=CC=C2)SC3=CC=C(OC)C=C13)CNC	Metabolite	DCTI-C-3348	(R)-3-(2-methoxy-10H-phenothiazin-10-yl)-N,2-dimethylpropan-1-amine	37819-98-0	NA	C18H22N2OS	314.45
1627		Tyrosine 3-Methoxy Derivative	OC1=C(OC)C=C(CC(N)C(O)=O)C=C1	Impurity	DCTI-C-1493	2-amino-3-(4-hydroxy-3-methoxyphenyl)propanoic acid	7636-26-2	NA	C10H13NO4	211.22
1628	**Levodopa**	Levodopa Impurity 1513-IP-1	OC1=C(O)C=C([C@](C(O)=O)(C)N[C@H](C(O)=O)C2)C2=C1	IMPURITY	DCTI-C-3533	(1S,3S)-6,7-dihydroxy-1-methyl-1,2,3,4-tetrahydroisoquinoline-1,3-dicarboxylic acid	2259692-12-9	(1S,3S)-6,7-dihydroxy-1-methyl-1,2,3,4-tetrahydroisoquinoline-1,3-dicarboxylic acid	C12H13NO6	267.24

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1629		Levodopa Impurity 1513-IP-2	OC1=C(O)C=C([C@@](C(O)=O)(C)N[C@H](C(O)=O)C2)C2=C1	IMPURITY	DCTI-C-3532	(1R,3S)-6,7-dihydroxy-1-methyl-1,2,3,4-tetrahydroisoquinoline-1,3-dicarboxylic acid	2259692-11-8	NA	C12H13NO6	267.24
1630		3-(4-hydroxy-3-methoxyphenyl)-2-methyllactic acid	OC(CC1=CC=C(O)C(OC)=C1)(C)C(O)=O	Impurity	DCTI-C-3575	2-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-2-methylpropanoic acid	54737-52-9	2-Methyl-3-(3′-methoxy-4′-hydroxyphenyl) lactic acid	C11H14O5	226.23
1631	Levofloxacin	Levofloxacin diamine Impurity	NCCNC1=C(F)C=C2C3=C1OC[C@H](C)N3C=C(C(O)=O)C2=O	IMPURITY	DCTI-C-3239	(S)-10-((2-aminoethyl)amino)-9-fluoro-3-methyl-7-oxo-2,3-dihydro-7H-[1,4]oxazino[2,3,4-ij]quinoline -6-carboxylic acid	1797510-34-9	Levofloxacin diamine derivative; N,N′-Desethylene-N-Desmethyl Levofloxacin	C15H16FN3O4	321.31
1632		N-Nitroso Levofloxacin	O=C1C2=CC(F)=C(N3CCN(CC3)N=O)C4=C2N(C=C1C(O)=O)[C@@H](C)CO4	NDSRI	DCTI-C-3240	(S)-9-fluoro-3-methyl-10-(4-nitrosopiperazin-1-yl)-7-oxo-2,3-dihydro-7H-[1,4]oxazino[2,3,4-ij]quinoline-6-carboxylic acid	1152314-62-9	NA	C17H17FN4O5	376.34
1633		Levofloxacin Diamine Derivative	CNCCNC1=C(F)C=C2C3=C1OC[C@H](C)N3C=C(C(O)=O)C2=O	IMPURITY	DCTI-C-3518	(S)-9-fluoro-3-methyl-10-((2-(methylamino)ethyl)amino)-7-oxo-2,3-dihydro-7H-[1,4]oxazino[2,3,4-ij]quinoline-6-carboxylic acid	151250-76-9	NA	C16H18FN3O4	335.34
1634		Dextrosimendan Impurity	O=C1C[C@H](C)C(C2=CC=C(N/N=C(C#N)/C#N)C=C2)=NN1	Impurity	DCTI-C-1716	(S)-N-(4-(4-methyl-6-oxo-1,4,5,6-tetrahydropyridazin-3-yl)phenyl)carbonohydrazonoyl dicyanide	NA	Enantiomer of levosimendan, (S)-Levosimendan	C14H12N6O	280.29
1635	**Levonorgestrel**	Levonorgestrel EP impurity A	O=C1CCC2C(CCC3=C(CC[C@]4(C#C)O)[C@]4(CC)CCC32)=C1	impurity	DCTI-C-2208	(13S,17R)-13-ethyl-17-ethynyl-17-hydroxy-1,2,6,7,9,10,11,12,13,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	1260525-53-8	(17α)-13-ethyl-17-hydroxy-18,19-dinorpregna-4,8(14)-dien-20-yl-3-one; 13-ethyl-17-hydroxy-18,19-dinor-17α-pregn-4,8(14)-dien-20yn-3-one; 8(14)-dehydronorgestrel; (17α)-(±)-13-ehtyl-17-hydroxy-18,19-dinorpregna-4,8(14)-	C21H26O2	310.44

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1636		Monochlorotriiodothyronine (Impurity-B)	O=C(O)[C@@H](N)CC1=CC(I)=C(OC2=CC(I)=C(O)C(Cl)=C2)C(I)=C1	Impurity	DCTI-C-188	(2S)-2-amino-3-[4-(3-chloro-4-hyrdoxy-5-iodophenoxy)-3,5-diiodophenyl]propanoic acid	1628720-66-0	NA	C15H11ClI3NO4	685.42
1637		Triiodothyronine sulfate	O=C(O)[C@@H](N)CC1=CC(I)=C(OC2=CC(I)=C(OS(O)(=O)=O)C=C2)C(I)=C1	MEtabolite	DCTI-C-2254	(S)-2-amino-3-(3,5-diiodo-4-(3-iodo-4-(sulfooxy)phenoxy)phenyl)propanoic acid.	NA	3,3',5-Triiodo-L-thyronine 4'-O-Sulfate; Liothyronine sulfate; 3,3',5-Triiodo-L-thyronine sulphate.	C15H12I3NO7S	731.03
1638		3,5-Diiodo-L-thyronine	N[C@@H](CC1=CC(I)=C(OC2=CC=C(O)C=C2)C(I)=C1)C(O)=O	MEtabolite	DCTI-C-1652	(S)-2-amino-3-(4-(4-hydroxyphenoxy)-3,5-diiodophenyl)propanoic acid	NA	Levothyroxine EP impurity E; Levothyroxine impurity E	C15H13I2NO4	525.08
1639		Levothyroxine β-Hydroxy T4	OC1=C(I)C=C(OC2=C(I)C=C(C(O)C(N)C(O)=O)C=C2I)C=C1I	impurity	DCTI-C-2056	2-amino-3-hydroxy-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl) propanoic acid	107849-54-7	β-Hydroxy Thyroxine, Levothyroxine beta-Hydroxy Impurity, Levothyroxine USB A impurity, O-(4-hydroxy-3,5-diiodophenyl)-3,5-diiodo-b-hydroxy-L-tyrosine, Levothyroxine Impurity 21.	C15H11I4NO5	792.87
1640		T4-Lactic acid	OC1=C(I)C=C(OC2=C(I)C=C(CC(O)C(O)=O)C=C2I)C=C1I	impurity	DCTI-C-2057	2-Hydroxy-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid.	7069-47-8	3,5,3',5'-Tetraiodothyrolactic acid; α-Hydroxy-4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzene propanoic acid.	C15H10I4O5	777.86
1641		Levothyroxine Impurity F	O=C(O)[C@@H](N)CC1=CC(I)=C(OC2=CC(I)=C(OC3=CC(I)=C(O)C(I)=C3)C(I)=C2)C(I)=C1	Impurity	DCTI-C-189	(S)-2-amino-3-(4-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	911661-90-0	NA	C21H13I6NO5	1120.76

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1642	Levothyroxine	Levothyroxine T4-Formicacid-N-Methylamide	OC1=C(I)C=C(OC2=C(I)C=C(C(NC)=O)C=C2I)C=C1I	Impurity	DCTI-C-1765	4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodo-N-methylbenzamide	NA	Thyroxine-Formic acid-N-Methyl amide; T4-Formic Acid N-methylamide	C14H9I4NO3	746.85
1643		Levothyroxine Impurity-H	OC(C1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1)=O	Impurity	DCTI-C-190	4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzoic acid	2055-97-2	TFA 4; Tetraform; Tetraform (thyroid hormone analog); Tetraiodothyroformic acid;	C13H6I4O4	733.8
1644		T4-Aldehyde (Impurity-I)	[H]C(C1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1)=O	Impurity	DCTI-C-191	4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzaldehyde	2016-06-0	NA	C13H6I4O3	717.81
1645		Levothyroxine Impurity-J	O=C(O)[C@@H](N)CC1=CC=C(OC2=CC=C(O)C(I)=C2)C(I)=C1	Impurity	DCTI-C-192	(S)-2-amino-3-(4-(4-hydroxy-3-iodophenoxy)-3-iodophenyl)propanoic acid	4604-41-5	NA	C15H13I2NO4	525.08
1646		Levothyroxine Impurity-K	O=C(O)[C@@H](N)CC1=CC=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1	Impurity	DCTI-C-193	(S)-2-amino-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3-iodophenyl)propanoic acid	5817-39-0	Isoliothyronine; Reverse L-triiodothyronine; Reverse T3; Reverse triiodothyronine; rT3	C15H12I3NO4	650.98
1647		T4-Hydroxy acetic acid	OC(C(O)C1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1)=O	Impurity	DCTI-C-194	2-Hydroxy-2-[4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl]acetic acid	93647-48-4	NA	C14H8I4O5	763.83
1648		T4-acetamide	NC(CC1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1)=O	Impurity	DCTI-C-195	2-[4-(4-Hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl]acetamide	176258-88-1	NA	C14H9I4NO3	746.85
1649		T4-amine-O-methyl	NCCC1=CC(I)=C(OC2=CC(I)=C(OC)C(I)=C2)C(I)=C1.Cl	Impurity	DCTI-C-196	2-(4-(3,5-diiodo-4-methoxyphenoxy)-3,5-diiodophenyl)ethan-1-amine hydrochloride	2230724-39-5	NA	C15H14ClI4NO2	783.35

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1650		Levothyroxine O-Methyl	IC1=CC(C[C@H](N)C(O)=O)=CC(I)=C1OC2=CC(I)=C(OC)C(I)=C2	Impurity	DCTI-C-271	(S)-2-amino-3-(4-(3,5-diiodo-4-methoxyphenoxy)-3,5-diiodophenyl)propanoic acid	4367-89-9	NA	C16H13I4NO4	790.9
1651		Levothyroxine N-Methylamide	O=C(NC)[C@@H](N)CC1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1	Impurity	DCTI-C-272	(S)-2-amino-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methylpropanamide	2088032-52-2	NA	C16H14I4N2O3	789.92
1652		Levothyroxine N-Formyl /N-Formyl-T4	O=C(O)[C@@H](NC=O)CC1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1	Impurity	DCTI-C-273	(S)-2-formamido-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	671235-41-9	N-Formyl-T4 (USP)	C16H11I4NO5	804.88
1653		N-acetyl-L-thyroxine	O=C(O)[C@@H](NC(C)=O)CC1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1	Impurity	DCTI-C-281	(S)-2-acetamido-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	26041-51-0	N-acetyl-T4, Levothyroxine Related Compound-5	C17H13I4NO5	818.91
1654		Levothyroxine Degradant-1 Impurity	OC1=C(I)C=C(OC2=C(I)C=C(CCN)C=C2I)C=C1I.Cl	Impurity	DCTI-C-471	4-[4-(2-Aminoethyl)-2,6-diiodophenoxy]-2,6-diiodophenol Hydrochloride	788824-71-5	Thyroxamine Hydrochloride	C14H11I4NO2 (Free base) C14H12ClI4NO2 (HCl salt)	732.86 (Free base) 769.32 (HCl Salt)
1655		Liothyronine	O=C(O)[C@@H](N)CC1=CC(I)=C(OC2=CC(I)=C(O)C=C2)C(I)=C1	Impurity	DCTI-C-510	(S)-2-amino-3-(4-(4-hydroxy-3-iodophenoxy)-3,5-diiodophenyl)propanoic acid	5714-08-9	DT 3; Detrothyronin; Dextrothyronine; NSC 46046; Triiodo-L-thyronine	C15H12I3NO4	650.98
1656		T4-Acetic acid impurity	OC(CC1=CC(I)=C(OC2=CC(I)=C(O)C(I)=C2)C(I)=C1)=O	Impurity	DCTI-C-482	2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid	67-30-1	Levothyroxine EP Impurity D; Tetraiodothyroacetic acid	C14H8I4O4	747.83

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1657		3,5-diiodo-L-tyrosine	IC1=C(O)C(I)=CC(C[C@H](N)C(O)=O)=C1	impurity	DCTI-C-1116	(S)-2-amino-3-(4-hydroxy-3,5-diiodophenyl)propanoic acid	300-39-0	NA	C9H9I2NO3	432.98
1658		L-Tyrosine	N[C@@H](CC1=CC=C(O)C=C1)C(O)=O	impurity	DCTI-C-1174	L-2-Amino-3-(4-Hydroxyphenyl) propanoic acid	60-18-4	S-Tyrosine; NSC 82624; NSC 9973; p-Tyrosine	C9H11NO3	181.19
1659		Levothyroxine-N-Lactoside	O=C(O)[C@@H](N[C@H]1[C@H](O)[C@@H](O)[C@H](O[C@H]2[C@H](O)[C@@H](O)[C@@H](O)[C@@H](CO)O2)[C@@H](CO)O1)CC3=CC(I)=C(OC4=CC(I)=C(O)C(I)=C4)C(I)=C3	Metabolite	DCTI-C-1198	(S)-2-(((2R,3R,4R,5S,6R)-3,4-dihydroxy-6-(hydroxymethyl)-5-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)amino)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	NA	NA	C27H31I4NO14	1101.16
1660		Levothyroxine Glucose Adduct	OC(C(I)=C1)=C(C=C1OC(C(I)=C2)=C(C=C2CC(C(O)=O)N[C@@H]3O[C@@H]([C@H]([C@@H]([C@H]3O)O)O)CO)I)I	MEtabolite	DCTI-C-3487	3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-(((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)amino)propanoic acid	NA	NA	C21H21I4NO9	939.01
1661	**lidocaine**	N-Nitroso-desethyl lidocaine (Mixture of isomers)	CCN(N=O)CC(NC1=C(C)C=CC=C1C)=O	NDSRI	DCTI-C-3508	N-(2,6-dimethylphenyl)-2-(ethyl(nitroso)amino) acetamide	NA	NA	C12H17N3O2	235.29
1662		N-Desethyl Lidocaine (TFA salt)	CCNCC(NC1=C(C)C=CC=C1C)=O.FC(F)(F)C(O)=O	IMPURITY	DCTI-C-3507	N-(2,6-dimethylphenyl)-2-(ethylamino)acetamide 2,2,2-trifluoroacetate	7728-40-7 (Free base)	Nor Lidocaine; Monoethylglycinexylidide; Lidocaine EP Impurity D	C14H19F3N2O3 (Free acid) C12H18N2O (Free base)	320.31(Free acid) 206.29 (Free base)
1663		Lifitegrast Impurity 5	OC(C1=C(Cl)C=C(CN(C(C2=CC(OC=C3)=C3C=C2)=O)CC4)C4=C1Cl)=O	impurity	DCTI-C-2058	2-(benzofuran-6-carbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxylic acid	2129597-34-6	2-(6-Benzofuranylcarbonyl)-5,7-dichloro-1,2,3,4-tetrahydro-6-isoquinolinecarboxylic acid (ACI); 2-(Benzofuran-6-carbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxylic acid	C19H13Cl2NO4	390.22

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1664	Lifitegrast	Lifitegrast Impurity 1	CS(C1=CC=CC(C[C@@H](C(OCC2=CC=CC=C2)=O)NC(C3=C(Cl)C=C(CN(C(OC(C)(C)C)=O)CC4)C4=C3Cl)=O)=C1)(=O)=O	impurity	DCTI-C-2059	tert-butyl(S)-6-((1-(benzyloxy)-3-(3-(methylsulfonyl)phenyl)-1-oxopropan-2-yl)carbamoyl)-5,7-dichloro-3,4-dihydroisoquinoline-2(1H)-carboxylate	1194550-61-2	1,1-Dimethylethyl 5,7-dichloro-3,4-dihydro-6-[[[(1S)-1-[[3-(methylsulfonyl)phenyl]methyl]-2-oxo-2-(phenylmethoxy)ethyl]amino]carbonyl]-2(1H)-isoquinolinecarboxylate (ACI); Benzyl (S)-2-[[[2-(tert-butoxycarbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinolin-6-yl]carbonyl]amino]-3-[3-(methylsulfonyl)phenyl]propanoate	C32H34Cl2N2O7S	661.59
1665		Lifitegrast R-Isomer	CS(=O)(C1=CC=CC(C[C@@H](NC(C2=C(Cl)C=C3CN(C(C4=CC5=C(C=CO5)C=C4)=O)CCC3=C2Cl)=O)C(O)=O)=C1)=O	impurity	DCTI-C-2060	(R)-2-(2-(Benzofuran-6-carbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3-(3-(methylsulfonyl)phenyl)propanoic Acid	2271299-08-0	N-[[2-(6-Benzofuranylcarbonyl)-5,7-dichloro-1,2,3,4-tetrahydro-6-isoquinolinyl]carbonyl]-3-(methylsulfonyl)-D-phenylalanine (ACI); R-Lifitegrast; Lifitegrast Impurity 8	C29H24Cl2N2O7S	615.48
1666		Lifitegrast Impurity 3	CS(=O)(C1=CC=CC(C[C@H](NC(C2=C(Cl)C=C3CN(C(C4=CC5=C(C=CO5)C=C4)=O)CCC3=C2Cl)=O)C(OCC6=CC=CC=C6)=O)=C1)=O	impurity	DCTI-C-2061	benzyl (S)-2-(2-(benzofuran-6-carbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3-(3-(methylsulfonyl)phenyl)propanoate	1194550-67-8	1. N-[[2-(6-Benzofuranylcarbonyl)-5,7-dichloro-1,2,3,4-tetrahydro-6-isoquinolinyl]carbonyl]-3-(methylsulfonyl)-L-phenylalanine phenylmethyl ester (ACI) 2. Benzyl (S)-2-[[[2-[(benzofuran-6-yl)carbonyl]-5,7-dichloro-1,2,3,4-	C36H30Cl2N2O7S	705.6
1667		(S)-benzyl 2-(5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3-(3-(methylsulfonyl)phenyl)propanoate	O=C(OCC1=CC=CC=C1)[C@@H](NC(C2=C(Cl)C3=C(CNCC3)C=C2Cl)=O)CC4=CC=CC(S(=O)(C)=O)=C4	impurity	DCTI-C-2062	(S)-benzyl 2-(5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3-(3-(methylsulfonyl)phenyl)propanoate	1194864-18-0	Benzyl (S)-2-[[(5,7-dichloro-1,2,3,4-tetrahydroisoquinolin-6-yl)carbonyl]amino]-3-[3-(methylsulfonyl)phenyl]propanoate; N-[(5,7-Dichloro-1,2,3,4-tetrahydro-6-isoquinolinyl)carbonyl]-3-(methylsulfonyl)-L-phenylalanine phenylmethyl ester (ACI);	C27H26Cl2N2O5S	561.47
1668		5,7,8-TRICHLORO-1,2,3,4-TETRAHYDROISOQUINOLINE	ClC1=C2C(CCNC2)=C(Cl)C=C1Cl	Impurity	DCTI-C-413	5,7,8-trichloro-1,2,3,4-tetrahydroisoquinoline	73075-51-1	Lifitegrast impurity	C9H8Cl3N	236.52
1669		Lifitegrast tertiary butyl ester impurity	O=C(N[C@@H](CC1=CC=CC(S(=O)(C)=O)=C1)C(OC(C)(C)C)=O)C2=C(Cl)C3=C(CN(C(C4=CC=C5C=COC5=C4)=O)CC3)C=C2Cl	Impurity	DCTI-C-2822	tert-butyl (S)-2-(2-(benzofuran-6-carbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3-(3-(methylsulfonyl)phenyl)propanoate	2414639-05-5	1. L-Phenylalanine,N-[[2-(6-benzofuranylcarbonyl)-5,7-dichloro-1,2,3,4-tetrahydro-6-isoquinolinyl]carbonyl]-3-(methylsulfonyl)-, 1,1-dimethylethyl ester ;2. Tertiary Butyl Ester Impurity	C33H32Cl2N2O7S	671.59

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1670		Lifitegrast Impurity 11	O=C(C1=CC=C2C(OC=C2)=C1)O	Impurity	DCTI-C-2985	benzofuran-6-carboxylic acid	77095-51-3	1-Benzofuran-6-carboxylic acid	C9H6O3	162.14
1671		Linagliptin N-glucose impurity	CC#CCN1C2=C(N(C)C(N(CC3=NC4=CC=CC=C4C(C)=N3)C2=O)=O)N=C1N5CCCC(N/C=C(O)/C(C(C(CO)O)O)O)C5	MEtabolite	DCTI-C-2269	(Z)-7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-8-(3-((2,3,4,5,6-pentahydroxyhex-1-en-1-yl)amino)piperidin-1-yl)-3,7-dihydro-1H-purine-2,6-dione	NA	NA	$C_{31}H_{38}N_8O_7$	634.69
1672		Linagliptin S-isomer	CC#CCN1C2=C(N(C)C(N(CC3=NC4=CC=CC=C4C(C)=N3)C2=O)=O)N=C1N5CCC[C@H](N)C5	impurity	DCTI-C-1857	(S)-8-(3-aminopiperidin-1-yl)-7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-3,7-dihydro-1H-purine-2,6-dione	NA	NA	C25H28N8O2	472.55
1673		N-Carbamoyl Linagliptin	CC#CCN1C2=C(N(C)C(N(CC3=NC4=CC=CC=C4C(C)=N3)C2=O)=O)N=C1N5CCC[C@@H](NC(N)=O)C5	impurity	DCTI-C-1858	(R)-1-(1-(7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)piperidin-3-yl)urea	NA	Linagliptin N-Aminoacyl	C26H29N9O3	515.58
1674		Linagliptin impurity E	O=C(N1CC2=NC(C)=C3C=CC=CC3=N2)N(C)C4=C(N(CC#CC)C(N[C@H]5CNCCC5)=N4)C1=O	impurity	DCTI-C-1886	(R)-7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-8-(piperidin-3-ylamino)-3,7-dihydro-1H-purine-2,6-dione	1446263-38-2	Linagliptin LIP-2 Regio Isomer ; (R)-7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-8-(piperidin-3- ylamino)-1H-purine-2,6(3H,7H)-dione	C25H28N8O2	472.55
1675		8-Bromo-3-methyl-7-(2-butynyl)-xanthine	O=C(N1)N(C)C2=C(N(CC#CC)C(Br)=N2)C1=O	Impurity	DCTI-C-1757	8-bromo-7-(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	NA	Linagliptin impurity; LIB-06	C10H9BrN4O2	297.11

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1676	Linagliptin	N-Acetyl Linagliptin	CC#CCN1C2=C(N(C)C(N(CC3=NC4=CC=CC=C4C(C)=N3)C2=O)=O)N=C1N5CCC[C@@H](NC(C)=O)C5	MEtabolite	DCTI-C-1035	(R)-N-(1-(7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)piperidin-3-yl)acetamide	1803079-49-3	Linagliptin Acetamide; Linagliptin N-Acetyl Impurity	C27H30N8O3	514.58
1677		N-Boc Linagliptin	CC#CCN1C2=C(N(C)C(N(CC3=NC4=CC=CC=C4C(C)=N3)C2=O)=O)N=C1N5CCC[C@@H](NC(OC(C)(C)C)=O)C5	impurity	DCTI-C-1036	tert-butyl (R)-(1-(7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)piperidin-3-yl)carbamate	668273-75-4	NA	C30H36N8O4	572.66
1678		N-Formyl Linagliptin	CC#CCN1C2=C(N(C)C(N(CC3=NC4=CC=CC=C4C(C)=N3)C2=O)=O)N=C1N5CCC[C@@H](NC([H])=O)C5	impurity	DCTI-C-1037	(R)-N-(1-(7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)piperidin-3-yl)formamide	NA	NA	C26H28N8O3	500.55
1679		8-bromo-1,7-di(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	O=C(N1CC#CC)N(C)C2=C(N(CC#CC)C(Br)=N2)C1=O	Impurity	DCTI-C-3686	8-bromo-1,7-di(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	2436762-89-7	NA	C14H13BrN4O2	349.19
1680		8-bromo-3-methyl-3,7-dihydro-1H-purine-2,6-dio	O=C(N1)N(C)C2=C(NC(Br)=N2)C1=O	Impurity	DCTI-C-3685	8-bromo-3-methyl-3,7-dihydro-1H-purine-2,6-dione	93703-24-3	8-Bromo-3-methyl-xanthine.	C6H5BrN4O2	245.04
1681		7-(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	O=C(N1)N(C)C2=C(N(CC#CC)C=N2)C1=O	Impurity	DCTI-C-3708	7-(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	586408-08-4	7-(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	C10H10N4O2	218.22
1682		1,7-di(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	O=C(N1CC#CC)N(C)C2=C(N(CC#CC)C=N2)C1=O	Impurity	DCTI-C-3709	1,7-di(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	NA	NA	C14H14N4O2	270.29
1683		(Z)-7-(3-bromobut-2-en-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	O=C(N1)N(C)C2=C(N(C/C=C(Br)/C)C=N2)C1=O	Impurity	DCTI-C-3742	(Z)-7-(3-bromobut-2-en-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	NA	NA	C10H11BrN4O2	299.13

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1684		Linagliptin Methyldimer	CN(C1=C2N(CC#CC)C(N3C[C@@H](CCC3)N)=N1)C(N(C2=O)CC4=NC5=CC=CC=C5C(CC6(C)C7=CC=CC=C7NC(CN(C(N(C8=C9N(CC#CC)C(N%10C[C@@H](CCC%10)N)=N8)C)=O)C9=O)=N6)=N4)=O	Impurity	DCTI-C-1494	8-((R)-3-aminopiperidin-1-yl)-1-((4-((2-((8-((R)-3-aminopiperidin-1-yl)-7-(but-2-yn-1-yl)-3-methyl-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-1-yl)methyl)-4-methyl-1,4-dihydroquinazolin-4-yl)methyl)quinazolin-2-yl)methyl)-7-(but-2-yn-1-yl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione	1418133-47-7	NA	$C_{50}H_{56}N_{16}O_4$	945.08 (free base)
1685		Linagliptin Lactose	O=C(N1CC2=NC(C)=C3C=CC=CC3=N2)N(C)C4=C(N(CC#CC)C(N5C[C@H](NCC6(O)[C@H](O)[C@H](O[C@H]7[C@H](O)[C@@H](O)[C@@H](O)[C@@H](CO)O7)[C@H](O)CO6)CCC5)=N4)C1=O	Impurity	DCTI-C-3261	7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-8-((3R)-3-((((3R,4R,5R)-2,3,5-trihydroxy-4-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)methyl)amino)piperidin-1-yl)-3,7-dihydro-1H-purine-2,6-dione	na	NA	C37H48N8O12	796.84
1686	Linezolid	Linezolid impurity -D	NC[C@H](O)CN(C(C)=O)C1=CC=C(N2CCOCC2)C(F)=C1	Impurity	DCTI-C-1495	(S)-N-(3-amino-2-hydroxypropyl)-N-(3-fluoro-4-morpholinophenyl)acetamide	333753-69-8	Descarbonyl N-desacetyl N-acetyl linezolid	C15H22FN3O3	311.36
1687		Linezolid impurity E	CC(NC[C@H](O)CNC1=CC=C(N2CCOCC2)C(F)=C1)=O	Impurity	DCTI-C-1496	N-[(2R)-3-[[3-Fluoro-4-(4-morpholinyl)phenyl]amino]-2-hydroxypropyl] acetamide	333753-67-6	NA	C15H22FN3O3	311.36
1688		1-(3-fluoro-4-morpholinophenyl)-2-methyl-1,4,5,6-tetrahydropyrimidin-5-ol	[O-]C(CN=C1C)CN1C2=CC=C(N3CCOCC3)C(F)=C2.CCCC[N+](CCCC)(CCCC)CCCC	impurity	DCTI-C-2063	tetrabutylammonium 1-(3-fluoro-4-morpholinophenyl)-2-methyl-1,4,5,6-tetrahydropyrimidin-5-olate	NA	NA	C15H20FN3O2 (Free Base) C31H55FN4O2 (Tetrabutyl ammonium salt)	293.34 (Free Base) 534.81 (Tetrabutyl ammonium salt)
1689		Desacetyl-N,O-descarbonyl Linezolid	NC[C@H](O)CNC1=CC=C(N2CCOCC2)C(F)=C1	impurity	DCTI-C-2064	(S)-1-amino-3-((3-fluoro-4-morpholinophenyl)amino)propan-2-ol	333753-72-3	NA	C13H20FN3O2	269.32

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1690		Linezolid Related Compound C	FC1=C(N2CCOCC2)C=CC(N3C(O[C@@H](CN)C3)=O)=C1	impurity	DCTI-C-2065	(S)-5-(aminomethyl)-3-(3-fluoro-4-morpholinophenyl)oxazolidin-2-one	168828-90-8	Deacetyl linezolid; Linezolid USP RC C	C14H18FN3O3	295.31
1691		Linezolid Related Compound D	FC1=C(N2CCOCC2)C=CC(N3C(O[C@@H](COS(=O)(C)=O)C3)=O)=C1	impurity	DCTI-C-2066	(R)-(3-(3-fluoro-4-morpholinophenyl)-2-oxooxazolidin-5-yl)methyl methanesulfonate	174649-09-3	Linezolid USP RC D	C15H19FN2O6S	374.38
1692		Linezolid R-Isomer	CC(NC[C@@H]1CN(C2=CC=C(N3CCOCC3)C(F)=C2)C(O1)=O)=O	impurity	DCTI-C-2067	(R)-N-((3-(3-fluoro-4-morpholinophenyl)-2-oxooxazolidin-5-yl)methyl)acetamide	872992-20-6	(R)-Linezolid	C16H20FN3O4	337.35
1693		Linezolid impurity -F	CC(NC[C@H]1CN(C2=CC=C(N(C=O)CCO)C(F)=C2)C(O1)=O)=O	Impurity	DCTI-C-1497	(S)-N-((3-(3-fluoro-4-(N-(2-hydroxyethyl)formamido)phenyl)-2-oxooxazolidin-5-yl)methyl)acetamide	NA	NA	C15H18FN3O5 (free base)	339.32 (free base)
1694		Lincomycin-2,4 -phosphate	O=C([C@H]1N(C[C@@H](C1)CCC)C)N[C@H]([C@@H](C)O)[C@H]2O[C@@H]([C@@H]([C@H]([C@H]2O3)O)OP3(O)=O)SC	Impurity	DCTI-C-675	(2S,4R)-N-((1R,2R)-1-((1R,5R,6R,8R,9S)-3,9-dihydroxy-8-(methylthio)-3-oxido-2,4,7-trioxa-3-phosphabicyclo[3.3.1]nonan-6-yl)-2-hydroxypropyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	NA	Clindamycin Phosphate EP Impurity G; Clindamycin Phosphate BP Impurity G;	C18H33N2O8PS	468.5

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1695	**Lincomycin**	Lincomycin impurity A	O[C@@H]([C@H]([C@H]1O[C@@H]([C@@H]([C@H]([C@H]1O)O)O)SC)NC([C@@H]2N(C[C@@H](C2)CCC)C)=O)C	Impurity	DCTI-C-2642	(2R,4R)-N-((1R,2R)-2-hydroxy-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(methylthio)tetrahydro-2H-pyran-2-yl)propyl)-1-methyl-4-propylpyrrolidine-2-carboxamide	NA	Lincomycin EP Impurity A; Methyl 6,8-Dideoxy-6-[[[(2R,4R)-1-methyl-4-propylpyrrolidin-2-yl]carbonyl]amino]-1-thio-D-erythro-a-D-galacto-octopyranoside; Lincomycin α-Amide Epimer ; Lincomycin (2R)-Epimer	C18H34N2O6S	406.21
1696		Lincomycin Impurity C	O[C@@H]([C@H]([C@H]1O[C@@H]([C@@H]([C@H]([C@H]1O)O)O)SC)NC([C@H]2NC[C@@H](C2)CCC)=O)C.Cl	Metabolite	DCTI-C-2790	(2S,4R)-N-((1R,2R)-2-hydroxy-1-((2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(methylthio)tetrahydro-2H-pyran-2-yl)propyl)-4-propylpyrrolidine-2-carboxamide hydrochloride	14600-41-0	Methyl 6,8-Dideoxy-6-[[[(2S,4R)-4-propyl-2-pyrrolidinyl]carbonyl]amino]-1-thio-D-erythro-α-D-galacto-octopyranoside Monohydrochloride; Lincomycin EP impurity C; N- Desmethyl Lincomycin	C17H32N2O6S (free base)C17H33ClN2O6S (HCl salt)	392.51 (free base)428.97 (HCl salt)
1697	Lincomycin	Lincomycin 2-Phosphate	CC(O)=O.O=P(O)(O[C@H]1[C@@H](SC)O[C@H]([C@H](NC([C@H]2N(C)C[C@H](CCC)C2)=O)[C@H](O)C)[C@H](O)[C@@H]1O)O	Impurity	DCTI-C-2329	acetic acid--(2R,3R,4S,5R,6R)-4,5-dihydroxy-6-((1R,2R)-2-hydroxy-1-((2S,4R)-1-methyl-4-propylpyrrolidine-2-carboxamido)propyl)-2-(methylthio)tetrahydro-2H-pyran-3-yl dihydrogen phosphate	27480-30-4	Clindamycin Phosphate EP Impurity F	C20H39N2O11PS	546.57
1698	**Lisinopril**	N-Nitroso Lisinopril	O=C([C@H]1N(C([C@@H](N(N=O)[C@H](C(O)=O)CCC2=CC=CC=C2)CCCCN)=O)CCC1)O	NDSRI	DCTI-C-3438	N2-((S)-1-carboxy-3-phenylpropyl)-N2-nitroso-L-lysyl-L-proline	519175-80-5	NA	C21H30N4O6	434.49
1699	**Loperamide**	Didesmethyl Loperamide	O=C(N)C(C1=CC=CC=C1)(CCN2CCC(C3=CC=C(Cl)C=C3)(O)CC2)C4=CC=CC=C4	Impurity	DCTI-C-026	4-(4-(4-chlorophenyl)-4-hydroxypiperidin-1-yl)-2,2-diphenylbutanamide	66164-06-5	R 21345	C27H29ClN2O2	448.99
1700		Desmethyl Loperamide	O=C(NC)C(C1=CC=CC=C1)(CCN2CCC(C3=CC=C(Cl)C=C3)(O)CC2)C4=CC=CC=C4	Metabolite	DCTI-C-027	4-(4-(4-chlorophenyl)-4-hydroxypiperidin-1-yl)-N-methyl-2,2-diphenylbutanamide	66164-07-6	R 20905	C28H31ClN2O2	463.02

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1701		Loperamide N-Oxide		Metabolite	DCTI-C-2993	(1s,4r)-4-(4-chlorophenyl)-1-(4-(dimethylamino)-4-oxo-3,3-diphenylbutyl)-4-hydroxypiperidine 1-oxide	109572-89-6	1-Piperidinebutanamide, 4-(4-chlorophenyl)-4-hydroxy-N,N-dimethyl-α,α-diphenyl-, 1-oxide, cis- (9CI, ACI)	C29H33ClN2O3	493.04
1702	Lopinavir	Lopinavir EP Impurity-G	CC(N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(COC3=C(C)C=CC=C3C)=O)=O	Impurity	DCTI-C-460	N-((2S,3S,5S)-5-acetamido-3-hydroxy-1,6-diphenylhexan-2-yl)-2-(2,6-dimethylphenoxy)acetamide	NA	NA	C30H36N2O4	488.63
1703		Lopinavir EP Impurity-E	N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(COC3=C(C)C=CC=C3C)=O	Impurity	DCTI-C-535	N-((2S,3S,5S)-5-amino-3-hydroxy-1,6-diphenylhexan-2-yl)-2-(2,6-dimethylphenoxy)acetamide	192725-49-8	NA	C28H34N2O3	446.59
1704		Lopinavir EP Impurity-F	[H]C(N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(COC3=C(C)C=CC=C3C)=O)=O	Impurity	DCTI-C-536	2-(2,6-dimethylphenoxy)-N-((2S,3S,5S)-5-formamido-3-hydroxy-1,6-diphenylhexan-2-yl)acetamide	NA	NA	C29H34N2O4	474.6
1705		Lopinavir Metabolite M1 Impurity	O=C([C@H](C(C)C)N1CCC(NC1=O)=O)N[C@@H](CC2=CC=CC=C2)C[C@H](O)[C@H](CC3=CC=CC=C3)NC(COC4=C(C)C=CC=C4C)=O	Metabolite	DCTI-A-192	(S)-N-((2S,4S,5S)-5-(2-(2,6-dimethylphenoxy)acetamido)-4-hydroxy-1,6-diphenylhexan-2-yl)-2-(2,4-dioxotetrahydropyrimidin-1(2H)-yl)-3-methylbutanamide	192725-39-6	4-Oxo Lopinavir	C37H46N4O6	642.8
1706		Lopinavir Metabolite M3-M4 Impurity	O=C([C@H](C(C)C)N1CCC(O)NC1=O)N[C@@H](CC2=CC=CC=C2)C[C@H](O)[C@H](CC3=CC=CC=C3)NC(COC4=C(C)C=CC=C4C)=O	Metabolite	DCTI-A-196	(2S)-N-((2S,4S,5S)-5-(2-(2,6-dimethylphenoxy)acetamido)-4-hydroxy-1,6-diphenylhexan-2-yl)-2-(4-hydroxy-2-oxotetrahydropyrimidin-1(2H)-yl)-3-methylbutanamide	357275-54-8	NA	C37H48N4O6	644.81

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1707	**Lornoxicam**	Lornoxicam Deschloro Analog	O=C(NC1=NC=CC=C1)C2=C(C3=C(S(N2C)(=O)=O)C=CS3)O	Impurity	DCTI-C-3068	4-hydroxy-2-methyl-N-(pyridin-2-yl)-2H-thieno[2,3-e][1,2]thiazine-3-carboxamide 1,1-dioxide	59804-37-4	Tenoxicam	C13H11N3O4S2	337.37
1708	**loratadine**	Desloratadine Methanone Impurity	O=C(C1CCN(CC1)C)C2=NC=CC=C2CCC3=CC(Cl)=CC=C3	Impurity	DCTI-C-3063	(3-(3-Chlorophenethyl)pyridin-2-yl)(1-methylpiperidin-4-yl)methanone	130642-50-1	Desloratadine Ketone Impurity; Loratadine Impurity 10	C20H23ClN2O	342.87
1709		Methanone.HCl Regio isomer	ClC1=CC(CCC2=CC=C(C(C3CCN(C)CC3)=O)N=C2)=CC=C1	Impurity	DCTI-C-3125	(5-(3-chlorophenethyl)pyridin-2-yl)(1-methylpiperidin-4-yl)methanone	NA	NA	C20H23ClN2O	342.87
1710		N-nitroso-Desloratadine	ClC1=CC=C2C(CCC3=CC=CN=C3/C2=C4CCN(CC\4)N=O)=C1	Impurity	DCTI-C-3304	8-chloro-11-(1-nitrosopiperidin-4-ylidene)-6,11-dihydro-5H-benzo[5,6]cyclohepta[1,2-b]pyridine	1246819-22-6	NA	C19H18ClN3O	339.82
1711		4-(azidomethyl)-2-butyl-5-chloro-1H-imidazole	ClC1=C(CN=[N+]=[N-])N=C(CCCC)N1	impurity	DCTI-C-1644	4-(azidomethyl)-2-butyl-5-chloro-1H-imidazole	2353190-33-5	Losartan imidazole intermediate azide impurity; 5-(azidomethyl)-2-butyl-4-chloro-1H-imidazole	C8H12ClN5	213.67
1712		Losartan Azide Nitrile	N#CC1=CC=CC=C1C2=CC=C(CN3C(CN=[N+]=[N-])=C(Cl)N=C3CCCC)C=C2	impurity	DCTI-C-1638	4'-((5-(azidomethyl)-2-butyl-4-chloro-1H-imidazol-1-yl)methyl)-[1,1'-biphenyl]-2-carbonitrile	NA	NA	C22H21ClN6	404.9

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1713	Losartan	Losartan azide	ClC1=C(CN=[N+]=[N-])N(CC2=CC=C(C3=CC=CC=C3C4=NN=NN4)C=C2)C(CCCC)=N1	Impurity	DCTI-C-1611	5-(4'-((5-(azidomethyl)-2-butyl-4-chloro-1H-imidazol-1-yl)methyl)-[1,1'-biphenyl]-2-yl)-1H-tetrazole	NA	NA	C22H22ClN9	447.93
1714		Dehydro Lovastatin	[H][C@@]12C(C=C[C@H](C)[C@@H]2CC[C@@H]3CC=CC(O3)=O)=C[C@H](C)C[C@@H]1OC([C@@H](C)CC)=O	Impurity	DCTI-C-016	(1S,3R,7S,8S,8aR)-3,7-dimethyl-8-(2-((R)-6-oxo-3,6-dihydro-2H-pyran-2-yl)ethyl)-1,2,3,7,8,8a-hexahydronaphthalen-1-yl (S)-2-methylbutanoate	109273-98-5	Dehydromonacolin K; L 642257; α,ß-Dehydrolovastatin; Lovastatin EP Impurity C	C24H34O4	386.53
1715		Lovastatin related compound #6	[H][C@@]12C(C=C[C@H](C)[C@]2([H])CC[C@]3([H])CC(CC(O3)=O)=O)=C[C@H](C)C[C@@H]1OC([C@@H](C)CC)=O	Impurity	DCTI-C-017	(1S,3R,7S,8S,8aR)-8-(2-((S)-4,6-dioxotetrahydro-2H-pyran-2-yl)ethyl)-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl (S)-2-methylbutanoate	NA	NA	C24H34O5	402.53
1716		Lumateperone metabolite M131	CN1C2=C3C([C@@]4([H])[C@@](CCN(C4)CCC(C5=CC=C(C=C5)F)O)([H])N3CC1)=CC=C2	Metabolite	DCTI-C-2660	1-(4-fluorophenyl)-4-((6bR,10aS)-3-methyl-2,3,6b,9,10,10a-hexahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxalin-8(7H)-yl)butan-1-ol	1469343-42-7	NA	C24H30FN3O	395.52
1717		Desmethyl Lumateperone	O=C(C1=CC=C(F)C=C1)CCCN2CC[C@@](N3CCNC4=C3C5=CC=C4)([H])[C@@]5([H])C2	Metabolite	DCTI-C-2578	1-(4-fluorophenyl)-4-((6bR,10aS)-2,3,6b,9,10,10a-hexahydro-1H-pyrido[3',4': 4,5]pyrrolo[1,2,3-de]quinoxalin-8(7H)-yl)butan-1-one	313368-82-0	Lumateperone metabolite M161	C23H26FN3O	379.48
1718		Lumateperone Metabolite 565	[H][C@]12CCN(C[C@]1(C3=CC=CC4=C3N2CCN4)[H])CCCC(C5=CC=C(C=C5)F)O	MEtabolite	DCTI-C-2599	1-(4-fluorophenyl)-4-((6bR,10aS)-2,3,6b,9,10,10a-hexahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxalin-8(7H)-yl)butan-1-ol	1469777-40-9	IC200565; Lumateperone M565	C23H28FN3O	381.5

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1719	**Lumateperone**	Lumateperone Metabolite 308	[H][C@]12CCN(C[C@]1(C3=CC=CC4=C3N2CC(N4)=O)[H])CCCC(C5=CC=C(C=C5)F)=O	MEtabolite	DCTI-C-2600	(6bR,10aS)-8-(4-(4-fluorophenyl)-4-oxobutyl)-6b,7,8,9,10,10a-hexahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxalin-2(3H)-one	2117618-96-7	Lumateperone M308	C23H24FN3O2	393.46
1720		Lumateperone Metabolite M309	[H][C@]12CCN(C[C@]1(C3=CC=CC4=C3N2CC(N4)=O)[H])CCCC(C5=CC=C(C=C5)F)O	MEtabolite	DCTI-C-2705	(6bR,10aS)-8-(4-(4-fluorophenyl)-4-hydroxybutyl)-6b,7,8,9,10,10a-hexahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxalin-2(3H)-one	2117618-98-9	NA	C23H26FN3O2	395.48
1721		Ortho Isomer of Lumateperone (Tosylate salt)	O=S(O)(C1=CC=C(C=C1)C)=O.CN2C3=C4C([C@@]5([H])[C@@](CCN(C5)CCCC(C6=CC=CC=C6F)=O)([H])N4CC2)=CC=C3	IMPURITY	DCTI-C-2758	1-(2-fluorophenyl)-4-((6bR,10aS)-3-methyl-2,3,6b,9,10,10a-hexahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxalin-8(7H)-yl)butan-1-one 4-methylbenzenesulfonate	NA	LTP ortho isomer; Ortho-fluoro isomer of Lumateperone	C24H28FN3O.C7H8O3S (Tosylate salt)C24H28FN3O (Free base)	393.51 (Free base)565.70 (Tosylate salt)
1722		Lumateperone trans isomer	[H][C@@]12CCN(C[C@]1(C3=CC=CC4=C3N2CCN4C)[H])CCCC(C5=CC=C(C=C5)F)=O.O=S(O)(C6=CC=C(C=C6)C)=O	Impurity	DCTI-C-3305	1-(4-fluorophenyl)-4-((6bR,10aR)-3-methyl-2,3,6b,9,10,10a-hexahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxalin-8(7H)-yl)butan-1-one 4-methylbenzenesulfonate	2749865-88-9	NA	C24H28FN3O (Free base);C24H28FN3O.C7H8O3S (Tosylate salt)	393.51 (Free base) 565.70 (Tosylate salt)
1723	**Lumefantrine**	N-Nitroso Lumefantrine Impurity	CCCCN(N=O)CC(C1=C2C(/C(C3=CC(Cl)=CC=C32)=C\C4=CC=C(C=C4)Cl)=CC(Cl)=C1)O	NDSRI	DCTI-C-2362	N-butyl-N-(2-(2,7-dichloro-9-(4-chlorobenzylidene)-9H-fluoren-4-yl)-2-hydroxyethyl)nitrous amide	NA	NA	C26H23Cl3N2O2	501.83
1724		Lurasidone isomer-1	O=C([C@]1([H])[C@@]([H])(C2)CC[C@]2([H])[C@]1([H])C3=O)N3C[C@@H]4CCCC[C@@H]4CN5CCN(C6=NSC7=C6C=CC=C7)CC5.O=C([C@]8([H])[C@@]([H])(C9)CC[C@]9([H])[C@]8([H])C%10=O)N%10C[C@H]%11CCCC[C@H]%11CN%12CCN(C%13=NSC%14=C%13C=CC=C%14)CC%12	Impurity	DCTI-C-803	(3aR,4R,7S,7aS)-2-(((1S,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)hexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione (or) (3aR,4R,7S,7aS)-2-(((1R,2S)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)hexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione	NA	NA	C28H36N4O2S	492.68
1725		Lurasidone isomer-2	O=C([C@]1([H])[C@@]([H])(C2)CC[C@]2([H])[C@]1([H])C3=O)N3C[C@@H]4CCCC[C@@H]4CN5CCN(C6=NSC7=C6C=CC=C7)CC5.O=C([C@]8([H])[C@@]([H])(C9)CC[C@]9([H])[C@]8([H])C%10=O)N%10C[C@H]%11CCCC[C@H]%11CN%12CCN(C%13=NSC%14=C%13C=CC=C%14)CC%12	Impurity	DCTI-C-804	(3aR,4R,7S,7aS)-2-(((1S,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)hexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione (or) (3aR,4R,7S,7aS)-2-(((1R,2S)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)hexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione	NA	NA	C28H36N4O2S	492.68

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1726		Lurasidone Impurity 22	O=C(N1CCN(C2=NSC3=C2C=CC=C3)CC1)OC[C@H]4[C@H](COC(N5CCN(C6=NSC7=C6C=CC=C7)CC5)=O)CCCC4	Impurity	DCTI-C-1707	((1R,2R)-cyclohexane-1,2-diyl) bis(methylene) bis(4-(benzo[d]isothiazol-3-yl) piperazine-1-carboxylate)	NA	NA	C32H38N6O4S2	634.81
1727		Lurasidone Endo-RS+SR Isomer (Cis-Endo)	O=C1N(CC2([H])CCCCC2([H])CN3CCN(C4=NSC5=C4C=CC=C5)CC3)C([C@]6([H])[C@@H]7CC[C@@H](C7)[C@@]61[H])=O	Impurity	DCTI-C-1708	(3aR,4R,7S,7aS)-2-(((1RS,2SR)-2-((4-(benzo[d]isothiazol-3-yl) piperazin-1-yl) methyl) cyclohexyl) methyl) hexahydro-1H-4,7-methanoisoindole-1,3(2H)-Dione	NA	I STD Lurasidone LRSRC-10	C28H36N4O2S	492.68
1728		LURASIDONE HYDROCHLORIDE IMPURITY F	[H][C@]([C@@]1([H])C2=O)([C@H]3C(O4)C4[C@@H]1C3)C(N2C[C@@H]5CCCC[C@H]5CN6CCN(C7=NSC8=C7C=CC=C8)CC6)=O	impurity	DCTI-C-1210	(2R,2aS,5aR,6S)-4-(((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)hexahydro-3H-2,6-methanooxireno[2,3-f]isoindole-3,5(4H)-dione	1373868-14-4	NA	C28H34N4O3S	506.67
1729		LURASIDONE HYDROCHLORIDE IMPURITY L	O=C(OC[C@@H]1CCCC[C@H]1CN2CCN(C3=NSC4=C3C=CC=C4)CC2)N(CC5)CCN5C6=NSC7=CC=CC=C76	impurity	DCTI-C-1211	((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl 4-(benzo[d]isothiazol-3-yl)piperazine-1-carboxylate	1807983-63-6	NA	C31H38N6O2S2	590.81
1730		LURASIDONE HYDROCHLORIDE IMPURITY J	O=C1N(C[C@@H]2CCCC[C@H]2CN(C3=O)C([C@]4([H])[C@@]3([H])[C@H]5CC[C@@H]4C5)=O)C([C@@]6([H])[C@@H]7CC[C@@H](C7)[C@]61[H])=O	impurity	DCTI-C-1212	(3aR,3a'R,4S,4'S,7R,7aS,7'R,7a'S)-2,2'-(((1R,2R)-cyclohexane-1,2-diyl)bis(methylene))bis(hexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione)	NA	NA	C26H34N2O4	438.57
1731		Lurasidone Ketone-Isomer-2	O=C1N(C([C@@]2([C@@H]3C[C@H]([C@]12[H])CC3=O)[H])=O)C[C@H]4[C@@H](CCCC4)CN5CCN(CC5)C6=NSC7=C6C=CC=C7	Impurity	DCTI-C-2582	(3aR,4S,7S,7aS)-2-(((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)meth yl)cyclohexyl)methyl)tetrahydro-1H-4,7-methanoisoindole-1,3,5(2H,4H)-trione	1309363-49-2	Exo-Lurasidone Ketone Impurity	C28H34N4O3S	506.67

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1732	Lurasidone	Endo-Epoxide impurity of Lurasidone	[H][C@]([C@@]1([H])C2=O)([C@@H]3C(O4)C4[C@H]1C3)C(N2C[C@@H]5CCCC[C@H]5CN6CCN(C7=NSC8=C7C=CC=C8)CC6)=O	Impurity	DCTI-C-2664	(2R,2aR,5aS,6S)-4-(((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cycl ohexyl)methyl)hexahydro-3H-2,6-methanooxireno[2,3-f]isoindole-3,5(4H)-dione	NA	NA	C28H34N4O3S	506.67
1733		Lurasidone Ketone Impurity	O=C([C@H]1[C@@H]2C(C[C@H]([C@H]1C3=O)C2)=O)N3C[C@@H]4CCCC[C@H]4CN5CCN(C6=NSC7=CC=CC=C76)CC5	Impurity	DCTI-C-2550	(3aS,4R,7R,7aR)-2-(((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)meth yl)cyclohexyl)methyl)tetrahydro-1H-4,7-methanoisoindole-1,3,5(2H,4H)-trione	1309363-50-5	Lurasidone Ketone-Isomer-1	C28H34N4O3S	506.67
1734		Lurasidone Olefin Impurity-1	O=C([C@H]1[C@@H]2C=C[C@H]([C@H]1C3=O)C2)N3C[C@@H]4CCCC[C@H]4CN5CCN(C6=NSC7=CC=CC=C76)CC5	IMPURITY	DCTI-C-2693	(3aR,4R,7S,7aS)-2-(((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)-3a,4,7,7a-tetrahydro-1H-4,7-methanoisoindole-1,3(2H)-dione	NA	Endo-Olefine Impurity of Lurasidone	C28H34N4O2S	490.67
1735		Lurasidone Endo Hydroxy	O=C([C@H]1[C@@H]2C(O)C[C@H]([C@H]1C3=O)C2)N3C[C@@H]4CCCC[C@H]4CN5CCN(C6=NSC7=CC=CC=C76)CC5	IMPURITY	DCTI-C-2721	(3aS,4R,7R,7aR)-2-(((1R,2R)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)-5-hydroxyhexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione	NA	Lurasidone Endo Hydroxy	C28H34N4O3S	508.68
1736		Lurasidone Impurity B (Methanesulfonate salt)	[H][C@]12C[N+]3(C[C@@]1(CCCC2)[H])CCN(CC3)C4=NSC5=C4C=CC=C5.O=S([O-])(C)=O	Impurity	DCTI-C-3136	(3aR,7aR)-4'-(benzo[d]isothiazol-3-yl)octahydrospiro[isoindole-2,1'-piperazin]-2-ium methanesulfonate	186204-37-5	(3aR-trans)-4'-(1,2-benzisothiazol-3-yl)octahydro-spiro[2H-isoindole-2,1'-piperazinium]	C19H26N3S(Free base)C20H29N3O3S2 (Methanesulfonate salt)	328.50(Free base)423.59 (Methanesulfonate salt)
1737		Lurasidone Enantiomer	O=C([C@@]([H])([C@]1(C2=O)[H])[C@@]3(C[C@]1(CC3)[H])[H])N2C[C@H]4CCCC[C@@H]4CN5CCN(CC5)C6=NSC7=C6C=CC=C7	Impurity	DCTI-C-3138	(3aR,4S,7R,7aS)-2-(((1S,2S)-2-((4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)methyl)cyclohexyl)methyl)hexahydro-1H-4,7-methanoisoindole-1,3(2H)-dione	1448443-35-3	Lurasidone 1S,2S-Exo Isomer	C28H36N4O2S	492.68

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1738		Lurasidone Metabolite 14283	O=C1[C@]2([H])[C@@](C(N1C[C@H]3[C@@H](CCCC3)CN4CCN(C5=NSC6=CC=CC=C56)CC4)=O)([H])[C@]7([H])C[C@@]2([H])C[C@H]7O	Metabolite	DCTI-C-3220	rel-(3aR,4S,5R,7S,7aS)-2-(((1R,2R)-2-((4-(benzo[d] isothiazol-3-yl)piperazin-1-yl)methyl) cyclohexyl) methyl)-5-hydroxyhexahydro-1H-4,7-methano isoindole-1,3(2H)-dione	NA	NA	C28H36N4O3S	508.68
1739		Epoxy Impurity of Lurasidone HCl	O=C1[C@@]2([H])[C@](C(N1)=O)([H])[C@@]3([H])C[C@]2([H])C4([H])C3([H])O4	IMPURITY	DCTI-C-3510	(2R,2aS,5aR,6S)-hexahydro-3H-2,6-methanooxireno[2,3-f]isoindole-3,5(4H)-dione	NA	(3aR,4S,7R,7aS)-5,6-epoxy-4,7-methano-1H-isoindole-1,3(2H)-dione	C9H9NO3	179.18
1740		Endo Reduced Isomer of Lurasidone HCl	O=C1[C@]2([H])[C@@](C(O1)=O)([H])[C@@]3([H])C[C@]2([H])CC3	IMPURITY	DCTI-C-3511	(3aR,4R,7S,7aS)-hexahydro-4,7-methanoisobenzofuran-1,3-dione-rel	17812-27-0	(1R,2R,6S,7S)-4-oxatricyclo-[5.2.1.02, 6]-decane-3,5-dione	C9H10O3	166.18
1741		HN-MCTRCO2	O=S(NC1=NC=NC(OCCO)=C1C2=CC=C(Br)C=C2)(NCCC)=O	impurity	DCTI-C-1903	Sulfamide, N-[5-(4-bromophenyl)-6-(2-hydroxyethoxy)-4-pyrimidinyl]-N'-propyl-	NA	O-Desbromo-pyrimidinyl Macitentan, Macitentan Impurity 2	C15H19BrN4O4S	431.31
1742		5-(4-Bromophenyl)-4,6-dichloropyrimidine(Impurity-V)	BrC(C=C1)=CC=C1C2=C(Cl)N=CN=C2Cl	impurity	DCTI-C-2069	5-(4-bromophenyl)-4,6-dichloropyrimidine	146533-41-7	Macitentan KSM-I Impurity.	C10H5BrCl2N2	303.96
1743		N-[5-(4-bromophenyl)-6-{2-[(5-chloropyrimidin-2-yl)oxy]ethoxy}pyrimidin-4-yl]-N′-propylsulfuricdiamide(Impurity-II)(Chloro Impurity)	BrC(C=C1)=CC=C1C2=C(OCCOC3=NC=C(Cl)C=N3)N=CN=C2NS(NCCC)(=O)=O	impurity	DCTI-C-2128	N-[5-(4-bromophenyl)-6-{2-[(5-chloropyrimidin-2-yl)oxy]ethoxy}pyrimidin-4-yl]-N′-propylsulfuricdiamide	2443747-63-3	Macitentan chloro impurity.	C19H20BrClN6O4S	543.82
1744		HN-MCTRCO3	O=S(NC1=NC=NC(Cl)=C1C2=CC=C(Br)C=C2)(NCCC)=O	impurity	DCTI-C-1904	Sulfamide, N-[5-(4-bromophenyl)-6-chloro-4-pyrimidinyl]-N'-propyl-	NA	N-[5-(4-Bromophenyl)-6-chloro-4-pyrimidinyl]-N'-propylsulfamide	C13H14BrClN4O2S	405.7

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1745	Macitentan	HN-MCTRCO1	ClC1=NC=C(Br)C=N1	impurity	DCTI-C-2171	5-bromo-2-chloropyrimidine	NA	NA	C4H2BrClN2	193.43
1746		HN-MCTRCO4	ClC(C=C1)=CC=C1C2=C(OCCOC3=NC=C(Br)C=N3)N=CN=C2NS(NCCC)(=O)=O	impurity	DCTI-C-2212	Sulfamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-5-(4-chlorophenyl)-4-pyrimidinyl)-N-propyl-	NA	Macitentan 4-chloro analog	C19H20BrClN6O4S	543.82
1747		HN-MCTRCO6	BrC(C=C1)=CC=C1C2=C(OCCOC3=NC=C(Br)C=N3)N=CN=C2NS(NCC)(=O)=O	impurity	DCTI-C-2213	Sulfamide, N-[5-[4-bromophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N-ethyl-	NA	Macitentan impurity B, Macitentan impurity 6, Macitentan N-despropyl-N-ethyl impurity	C18H18Br2N6O4S	574.25
1748		HN-MCTRCO7	ClC(C=C1)=CC=C1C2=C(OCCOC3=NC=C(Cl)C=N3)N=CN=C2NS(NCCC)(=O)=O	impurity	DCTI-C-2214	sulfamide, N-[6-[2-[(5-chloro-2-pyrimidinyl]oxy]ethoxy]-5-(4-chlorophenyl)-4-pyrimidinyl]-N-propyl-	NA	macitentan 4-chloro analog	C19H20Cl2N6O4S	499.37

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1749		N-Despropyl Macitentan	O=S(NC1=NC=NC(OCCOC2=NC=C(Br)C=N2)=C1C3=CC=C(Br)C=C3)(N)=O	Metabolite	DCTI-C-028	N-[5-(4-Bromophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-sulfamide	1103522-45-7	ACT 132577	C16H14Br2N6O4S	546.19
1750		Macitentan Amine	BrC1=CC=C(C=C1)C2=C(N)N=CN=C2OCCOC3=NC=C(Br)C=N3	Metabolite	DCTI-C-3227	5-(4-bromophenyl)-6-(2-((5-bromopyrimidin-2-yl)oxy)ethoxy)pyrimidin-4-amine	1433875-21-8	Despropylaminosulfonyl Macitentan	C16H13Br2N5O2	467.12
1751		O-Desbromo-pyrimidinyl Macitentan	O=S(NCCC)(NC1=NC=NC(OCCO)=C1C2=CC=C(Br)C=C2)=O	Metabolite	DCTI-C-3255	N-(5-(4-Bromophenyl)-6-(2-hydroxyethoxy)pyrimidin-4-yl)propane-1-sulfamide	1393813-43-8	Desmedipham; Macitentan Impurity 2.	C15H19BrN4O4S	431.3
1752		Macitentan Sulfamide Dimer	CCCNS(NC1=NC=NC(OCCOC(N=CN=C2NS(NCCC)(=O)=O)=C2C3=CC=C(C=C3)Br)=C1C4=CC=C(C=C4)Br)(=O)=O	Impurity	DCTI-C-3299	Sulfamide, N,N''-[1,2-ethanediylbis[oxy[5-(4-bromophenyl)-6,4-pyrimidinediyl]]]bis[N'-propyl-	2089065-77-8	Macitentan dimer; Macitentan Pyrimidine Dimer	C28H32Br2N8O6S2	800.54
1753		Macitentan Chloro Impurity	O=S(NCCC)(NC1=NC=NC(Cl)=C1C2=CC=C(Br)C=C2)=O	IMPURITY	DCTI-C-3517	N-[5-(4-Bromophenyl)-6-chloro-4-pyrimidinyl]-N'-propylsulfamide	1393813-42-7	NA	C13H14BrClN4O2S	405.7
1754		5-(2-bromophenyl) pyrimidine-4,6-diol	OC1=C(C2=CC=CC=C2Br)C(O)=NC=N1	Impurity	DCTI-C-3576	5-(2-bromophenyl)pyrimidine-4,6-diol	NA	NA	C10H7BrN2O2	267.08
1755		5-(2-bromophenyl)-4,6-dichloropyrimidine	ClC1=C(C2=CC=CC=C2Br)C(Cl)=NC=N1	Impurity	DCTI-C-3574	5-(2-bromophenyl)-4,6-dichloropyrimidine	1516860-25-5	Macitentan Impurity 43	C10H5BrCl2N2	303.97
1756		Macitentan Impurity 44	O=S(NCCC)(NC1=NC=NC(Cl)=C1C2=CC=CC=C2Br)=O	Impurity	DCTI-C-3619	N-[5-(2-Bromophenyl)-6-chloro-4-pyrimidinyl]-N'-propylsulfamide	NA	NA	C13H14BrClN4O2S	405.7

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1757		Macitentan Impurity 45	O=S(NCCC)(NC1=NC=NC(OCCO)=C1C2=CC=CC=C2Br)=O	Impurity	DCTI-C-3620	N-[5-(2-Bromophenyl)-6-(2-hydroxyethoxy)-4-pyrimidinyl]-N'-propylsulfamide	NA	NA	C15H19BrN4O4S	431.3
1758		Macitentan Impurity 46	O=S(NCCC)(NC1=NC=NC(OCCOC2=NC=C(Br)C=N2)=C1C3=CC=CC=C3Br)=O	Impurity	DCTI-C-3621	Sulfamide, N-[5-(2-bromophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-propyl-	NA	NA	C19H20Br2N6O4S	588.27
1759	**Manidipine**	(R) -Manidipine	O=[N+]([O-])C1=CC=CC([C@H]2C(C(OCCN3CCN(C(C4=CC=CC=C4)C5=CC=CC=C5)CC3)=O)=C(C)NC(C)=C2C(OC)=O)=C1	Impurity	DCTI-C-746	3-(2-(4-benzhydrylpiperazin-1-yl)ethyl) 5-methyl (R)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C35H38N4O6	610.71
1760		(S) -Manidipine	O=[N+]([O-])C1=CC=CC([C@@H]2C(C(OCCN3CCN(C(C4=CC=CC=C4)C5=CC=CC=C5)CC3)=O)=C(C)NC(C)=C2C(OC)=O)=C1	Impurity	DCTI-C-747	3-(2-(4-benzhydrylpiperazin-1-yl)ethyl) 5-methyl (S)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	NA	C35H38N4O6	610.71
1761	**Marbofloxacin**	Marbofloxacin EP Impurity A	OC(C1=CN(NC)C2=C(O)C(F)=C(F)C=C2C1=O)=O	Impurity	DCTI-C-2330	6,7-difluoro-8-hydroxy-1-(methylamino)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	115551-40-1	NA	C11H8F2N2O4	270.19
1762		Marbofloxacin EP Impurity B	OC(C1=CN2C3=C(OCN2C)C(F)=C(F)C=C3C1=O)=O	Impurity	DCTI-C-2331	9,10-difluoro-3-methyl-7-oxo-2,3-dihydro-7H-[1,3,4]oxadiazino[6,5,4-ij]quinoline-6-carboxylic acid	115551-41-2	NA	C12H8F2N2O4	282.2
1763		Marbofloxacin EP Impurity D	OC(C1=CN(NC)C2=C(O)C(N3CCN(C)CC3)=C(F)C=C2C1=O)=O	Impurity	DCTI-C-2332	6-fluoro-8-hydroxy-1-(methylamino)-7-(4-methylpiperazin-1-yl)-4-oxo-1,4-dihydro quinoline-3-carboxylic acid	117380-92-4	NA	C16H19FN4O4	350.35
1764		Marbofloxacin Impurity E	OC(C1=CN(NC)C2=C(OCC)C(N3CCN(C)CC3)=C(F)C=C2C1=O)=O	Impurity	DCTI-C-2333	8-Ethoxy-6-fluoro-1-(methylamino)-7-(4-methylpiperazin-1-yl)-4-oxo-1,4-dihydroquino line-3-carboxylic acid	2249835-04-7	N,O-Desmethylene O1-Ethyl Marbofloxacin	C18H23FN4O4	378.4

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1765		Marbofloxacin Impurity C	OC(C1=CN(NC)C2=C(F)C(N3CCN(C)CC3)=C(F)C=C2C1=O)=O	Impurity	DCTI-C-2334	6,8-difluoro-1-(methylamino)-7-(4-methylpiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	100276-37-7	NA	C16H18F2N4O3	352.34
1766	MARIBAVIR	VP44469 (MARIBAVIR METABOLITE)	NC1=NC2=CC(Cl)=C(Cl)C=C2N1[C@@H](O[C@H]3CO)[C@@H](O)[C@H]3O.CC(O)=O	Metabolite	DCTI-C-3774	(2S,3S,4R,5S)-2-(2-amino-5,6-dichloro-1H-benzo[d]imidazol-1-yl)-5-(hydroxymethyl)tetrahydrofuran-3,4-diol	NA	MARIBAVIR METABOLITE 1	C12H13Cl2N3O4 (free base) C14H17Cl2N3O6 (Acetate salt)	333.03 (free base) 392.04 (salt)
1767	**Maropitant**	Maropitant (MRP) Diastereomer Impurity	CC(C)(C1=CC(CN[C@H]2[C@@H](N3CCC2CC3)C(C4=CC=CC=C4)C5=CC=CC=C5)=C(C=C1)OC)C.CC(C)(C6=CC(CN[C@@H]7[C@H](N8CCC7CC8)C(C9=CC=CC=C9)C%10=CC=CC=C%10)=C(C=C6)OC)C	Impurity	DCTI-C-2913	(2R,3S)-2-benzhydryl-N-(5-(tert-butyl)-2-methoxybenzyl)quinuclidin-3-amine compound with (2S,3R)-2-benzhydryl-N-(5-(tert-butyl)-2-methoxybenzyl)quinuclidin-3-amine (1:1)	NA	NA	C32H40N2O	468.69
1768		Maropitant Enantiomer Impurity	CC(C)(C)C1=CC(CN[C@H]2[C@@H](C(C3=CC=CC=C3)C4=CC=CC=C4)N5CCC2CC5)=C(C=C1)OC	Impurity	DCTI-C-2968	(2R,3R)-2-benzhydryl-N-(5-(tert-butyl)-2-methoxybenzyl)quinuclidin-3-amine	2243127-12-8	Maropitant MRP 7 Enantiomer Impurity	C32H40N2O	468.69
1769		MRP-6 IMPURITY (TFA salt)	N[C@@H]1[C@H](C(C2=CC=CC=C2)C3=CC=CC=C3)N4CCC1CC4.FC(F)(C(O)=O)F	Impurity	DCTI-C-3571	(2S,3S)-2-benzhydrylquinuclidin-3-amine 2,2,2-trifluoroacetate	142035-23-2 (Free base)	Maropitant MRP 6 Impurity (TFA salt); Maropitant citrate monohydrate POZ5(TFA Salt)	C20H24N2 (Free base) C22H25F3N2O2(TFA Salt)	292.42 (Free base) 406.45 (TFASalt)
1770	**Medetomidine**	Bromomedetomidine Impurity	CC1=C(C)C=CC=C1C(C)C2=C(Br)NC=N2	Impurity	DCTI-C-2209	5-bromo-4-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole	NA	NA	C13H15BrN2	279.18
1771		1-Hydroxy N-Trityl Medetomidine	CC(C(C)=CC=C1)=C1C(C)(O)C2=CN=CN2C(C3=CC=CC=C3)(C4=CC=CC=C4)C5=CC=CC=C5	Impurity	DCTI-C-666	1-(2,3-dimethylphenyl)-1-(1-trityl-1H-imidazol-5-yl)ethan-1-ol	1556704-62-1	NA	C32H30N2O	458.61
1772		Hydroxy Medetomidine Impurity	CC1=C(C)C=CC=C1C(O)(C)C2=CNC=N2	impurity	DCTI-C-408	1-(2,3-dimethylphenyl)-1-(1H-imidazol-4-yl)ethan-1-ol	86347-12-8	NA	C13H16N2O	216.28

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1773		3-Hydroxy medetomidine	CC1=C(C(C)C2=CNC=N2)C=CC=C1CO	impurity	DCTI-C-1121	(3-(1-(1H-imidazol-4-yl)ethyl)-2-methylphenyl)methanol	128366-50-7	Hydroxy medetomidine	C113H16N2O	216.28
1774	**Mebendazole**	5-Hydroxy Mebendazole Impurity	O=C(OC)NC1=NC2=CC(C(O)C3=CC=CC=C3)=CC=C2N1	Impurity	DCTI-C-784	methyl (5-(hydroxy(phenyl)methyl)-1H-benzo[d]imidazol-2-yl)carbamate	60254-95-7	rac-Dihydro Mebendazole	C16H15N3O3	297.31
1775	**Mebeverine**	Mebeverine impurity J	CC(CC1=CC=C(OC)C=C1)N(CC)CCCCOCCCCN(C(CC(C=C2)=CC=C2OC)C)CC	Impurity	DCTI-C-1681	4,4'-oxybis(N-ethyl-N-(1-(4-methoxyphenyl)propan-2-yl)butan-1-amine)	NA	Mebeverine EP impurity J	C32H52N2O3	512.78
1776		Desmethyl Mebeverine acid	OC(CCCN(CC)C(CC1=CC=C(O)C=C1)C)=O	Metabolite	DCTI-C-1849	4-(ethyl(1-(4-hydroxyphenyl)propan-2-yl)amino)butanoic acid	NA	O-Desmethyl Mebeverine acid ; Mebeverine metabolite O-desmethyl	C15H23NO3	265.35
1777		Mebeverine EP Impurity B	CC(NCC)CC1=CC=C(OC)C=C1.Cl	Impurity	DCTI-C-1775	N-ethyl-1-(4-methoxyphenyl)propan-2-amine hydrochloride	NA	Mebeverine Impurity B; 2-Ethylamino-1-(4-methoxyphenyl)propane Hydrochloride; ethyl[1-(4-methoxyphenyl)propan-2-yl]amine hydrochloride; N-Ethyl-4-methoxy amphetamine	C12H19NO (Free Base) C12H20ClNO (Salt)	193.29 (Free Base) 229.75 (Salt)
1778		Mebeverine EP Impurity C	OCCCCN(CC)C(CC1=CC=C(OC)C=C1)C	Metabolite	DCTI-C-1776	4-(ethyl(1-(4-methoxyphenyl)propan-2-yl)amino)butan-1-ol	NA	Mebeverine metabolite Mebeverine alcohol, Mebeverine Alcohol, Mebeverine Impurity C	C16H27NO2	265.4
1779		Mebeverine EP Impurity A	CC(CC1=CC=C(OC)C=C1)=O	Impurity	DCTI-C-1682	1-(4-methoxyphenyl)propan-2-one	122-84-9	NSC 22983; NSC 46101; p-Methoxyphenylacetone	C10H12O2	164.20
1780	**Meclizine Impurities**	N,N'-Bis(3'-Me-benzyl)-piperazine	CC1=CC(CN2CCN(CC3=CC=CC(C)=C3)CC2)=CC=C1	Impurity	DCTI-C-3463	1,4-bis(3-methylbenzyl)piperazine	625406-13-5	J(MECLIZINE)	C20H26N2	294.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1781	Medroxyprogesterone	17β-Methyl-17-Keto D-Homo medroxyprogesterone	O=C1CC[C@@]2(C)C([C@@H](C)CC3C2CC[C@@]4(C)C3CCC([C@@]4(C)O)=O)=C1	impurity	DCTI-C-1835	(1S,6S,10aR,12aS)-1-hydroxy-1,6,10a,12a-tetramethyl-1,3,4,4a,4b,5,6,9,10,10a,10b,11, 12,12a-tetradecahydrochrysene-2,8-dione	NA	α-Hydroxy-β-methyl Medroxyprogesterone	C22H32O3	344.5
1782		17α-Methyl-17-Keto-D-Homo medroxyprogesterone	O=C1CC[C@@]2(C)C([C@@H](C)CC3C2CC[C@@]4(C)C3CCC([C@@]4(O)C)=O)=C1	impurity	DCTI-C-1836	(1R,6S,10aR,12aS)-1-hydroxy-1,6,10a,12a-tetramethyl-1,3,4,4a,4b,5,6,9,10,10a,10b,11, 12,12a-tetradecahydrochrysene-2,8-dione	NA	Medroxyprogesterone impurity I; β-Hydroxy-α-methyl Medroxyprogesterone	C22H32O3	344.5
1783		6α-Hydroxy Medroxy Progesterone 17-Acetate	O=C1CC[C@@]2(C)C([C@](O)(C)CC3C2CC[C@@]4(C)C3CC[C@@]4(C(C)=O)OC(C)=O)=C1	impurity	DCTI-C-1631	(6S,10R,13S,17R)-17-acetyl-6-hydroxy-6,10,13-trimethyl-3-oxo-2,3,6,7,8,9,10, 11,12, 13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	984-46-3	6α-Hydroxy Medroxyprogesterone 17-Acetate; (6α)-17-(Acetyloxy)-6-hydroxy-6-methylpregn-4-ene-3,20-dione	C24H34O5	402.53
1784		6-methylene acetoxy progesterone (Impurity E-Ph Eur)	C=C1C2=CC(CC[C@]2(C)C3C(C(CC[C@@]4(C(C)=O)OC(C)=O)[C@]4(C)CC3)C1)=O	impurity	DCTI-C-2230	(10R,13S,17R)-17-acetyl-10,13-dimethyl-6-methylene-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	NA	Medroxyprogesterone EP impurity A; 6-methyl progesterone acetate; megestrol acetate EP impurity D; Pregn-4-ene-3,20-dione; 17-acetoxy-6-methylenepregn-4-ene-3,20-dione; 17α-acetoxy-6-methylenepregn-4-ene-3,20-dione; 17α-Acetoxy-6-methyleneprogesterone	C24H32O4	384.52
1785		Hydroxyprogesterone acetate (Impurity H)	O=C1CC[C@@]2(C)C(CCC3C2CC[C@@]4(C)C3CC[C@@]4(C(C)=O)OC(C)=O)=C1	impurity	DCTI-C-2231	(10R,13S,17R)-17-acetyl-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	NA	17-(acetyloxy)pregn-4-ene-3,20-dione; 17-hydroxypregn-4-ene-3,20-dione acetate; 17-(acetyloxy)progesterone; 17-acetoxypregn-4-ene-3,20-dione; 17-hydroxy progesteroneacetate; 17α-acetoxypregn-4-ene-3,20-dione;	C23H32O4	372.51
1786		Medroxyprogesterone (Impurity B)	O[C@]1([C@@]2([C@@]([C@@]3([H])[C@]([C@@]4(C([C@H](C3)C)=CC(CC4)=O)C)([H])CC2)([H])CC1)C)C(C)=O	impurity	DCTI-C-2232	(6S,10R,13S,17R)-17-acetyl-17-hydroxy-6,10,13-trimethyl-1,2,6,7,8,9,10, 11,12,13,14, 15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	17α-Hydroxy-6α-methyl-progesterone; 17-Hydroxy-6α-methylpregn-4-ene-3,20-dione; NSC 27408; Medroxy progesterone Acetate USP Related Compound B; Medroxyprogesterone EP Impurity B; 6α-Methyl-4-pregnen-17α-ol-3,20-dione; 6α-Methyl-17-hydroxyprogesterone;	C22H32O3	344.5

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1787		6-β -hydroxy medroxyprogesterone	O=C1CC[C@@]2(C)C([C@](C)(O)CC3C2CC[C@@]4(C)C3CC[C@@]4(C(C)=O)OC(C)=O)=C1	impurity	DCTI-C-1630	(6R,10R,13S,17R)-17-acetyl-6-hydroxy-6,10,13-trimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13, 14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	984-47-4	Medroxyprogesterone EP Impurity A; 6β-Hydroxy Medroxy Progesterone 17-acetate; (6β)-17-(Acetyloxy)-6-hydroxy-6-methylpregn-4-ene-3,20-dione	C24H34O5	402.53
1788		D-Homo analogous Medroxy progesterone (Imp C Ph .Eur)	O=C1CC[C@@]2(C)C([C@@H](C)C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@]3(CCC([C@@]4(C)OC(C)=O)=O)[H])=C1	impurity	DCTI-C-1887	(1S,6S,10aR,12aS)-1,6,10a,12a-tetramethyl-2,8-dioxo-1,2,3,4,4a,4b,5,6,8,9,10,10a,10b, 11,12,12a-hexadecahydrochrysen-1-yl acetate	NA	Medroxyprogesterone EP Impurity C; Medroxyprogesterone Acetate EP Impurity C	C24H34O4	386.53
1789		Medroxyprogesterone Acetate - Impurity G	O=C1CC[C@@]2(C)C(C(C)=CC3C2CC[C@@]4(C)C3CC[C@@]4(C(C)=O)OC(C)=O)=C1	Impurity	DCTI-C-3015	(10R,13S,17R)-17-acetyl-6,10,13-trimethyl-3-oxo-2,3,8,9,10,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	595-33-5	17-(Acetyloxy)-6-methypregna-4,6-diene-3,20-dione; 6-Methyl-3,20-dioxopregna-4,6-dien-17-yl acetate; Megestryl Acetate EP Impurity G; Megestrol Acetate	C24H32O4	384.52
1790		4,5-dihydroanalog of Medroxyprogesterone (Impurity F)	CC(O[C@]1(C(C)=O)CC[C@@]2([H])[C@]3([H])C[C@H](C)[C@]4([H])CC(CC[C@]4(C)[C@@]3([H])CC[C@]12C)=O)=O	Impurity	DCTI-C-2324	(5S,6S,8R,9S,10S,13S,14S,17R)-17-acetyl-6,10,13-trimethyl-3-oxohexadecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	69688-15-9	Medroxyprogesterone impurity F	C24H36O4	388.55
1791	**Melatonin**	N1-Acetyl-N2-formyl-5-methoxykynuramine(Melatonin)	O=C(C)NCCC(C1=CC(OC)=CC=C1NC=O)=O	IMPURITY	DCTI-C-2694	N-(3-(2-formamido-5-methoxyphenyl)-3-oxopropyl)acetamide	52450-38-1	1. AFMK 2.NSC 688263	C13H16N2O4	264.28
1792		6-Hydroxy Melatonin	COC1=C(O)C=C(NC=C2CCNC(C)=O)C2=C1	Metabolite	DCTI-C-3534	N-(2-(6-hydroxy-5-methoxy-1H-indol-3-yl)ethyl)acetamide	2208-41-5	Melatonin 6-Hydroxy Impurity	C13H16N2O3	248.28
1793		N-Nitroso Melatonin	CC(NCCC1=CN(N=O)C2=C1C=C(OC)C=C2)=O	NDSRI	DCTI-C-3714	N-(2-(5-methoxy-1-nitroso-1H-indol-3-yl)ethyl)acetamide.	278783-22-5	N-Nitroso Melatonin mixture of isomers	C13H15N3O3	261.28

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1794		Melphalan Impurity-D	N[C@@H](CC1=CC=C(N(CCO)CCCl)C=C1)C(O)=O	Impurity	DCTI-C-703	(S)-2-amino-3-(4-((2-chloroethyl)(2-hydroxyethyl)amino)phenyl)propanoic acid	61733-01-5	Hydroxy Melphalan	C13H19ClN2O3	286.76
1795		Melphalan Impurity-I	N[C@@H](CC1=CC=C(N(CCOC)CCCl)C=C1)C(O)=O	Impurity	DCTI-C-704	(S)-2-amino-3-(4-((2-chloroethyl)(2-methoxyethyl)amino)phenyl)propanoic acid	573704-40-2	NA	C14H21ClN2O3	300.78
1796		Melphalan Impurity-J	N[C@@H](CC1=CC=C(N(CCOCCCl)CCCl)C=C1)C(O)=O	Impurity	DCTI-C-705	(S)-2-amino-3-(4-((2-(2-chloroethoxy)ethyl)(2-chloroethyl)amino)phenyl)propanoic acid	NA	2-Chloroethoxy Dechloromelphalan	C15H22Cl2N2O3	349.25
1797		Melphalan Phthalimide Impurity	O=C(OC)[C@H](CC1=CC=C(N)C=C1)N2C(C(C=CC=C3)=C3C2=O)=O	Impurity	DCTI-C-731	methyl (S)-3-(4-aminophenyl)-2-(1,3-dioxoisoindolin-2-yl)propanoate	74713-96-5	NA	C18H16N2O4	324.34

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1798	Melphalan	Melphalan Ethyl Ester	N[C@@H](CC1=CC=C(N(CCCl)CCCl)C=C1)C(OCC)=O	Impurity	DCTI-C-732	ethyl (S)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanoate	18067-07-7	NA	C15H22Cl2N2O2	333.25
1799		Melphalan Methyl Ester	N[C@@H](CC1=CC=C(N(CCCl)CCCl)C=C1)C(OC)=O	Impurity	DCTI-C-733	methyl (S)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanoate	88457-23-2	Melphalan EP Impurity H	C14H20Cl2N2O2	319.23
1800		Melphalan impurity-8	O=C(OC)[C@H](CC1=CC=C([N+]([O-])=O)C=C1)N2C(C(C=CC=C3)=C3C2=O)=O	Impurity	DCTI-C-734	methyl (S)-2-(1,3-dioxoisoindolin-2-yl)-3-(4-nitrophenyl)propanoate	NA	NA	C18H14N2O6	354.32
1801		Melphalan Impurity G Trifluoroacetic acid salt	N[C@@H](CC1=CC=C(N(CCCl)CCCl)C=C1)C(OCCN(C2=CC=C(C=C2)C[C@@H](C(O)=O)N)CCCl)=O.OC(C(F)(F)F)=O	Impurity	DCTI-C-735	(S)-2-amino-3-(4-((2-(((S)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanoyl)oxy)ethyl)(2-chloroethyl)amino)phenyl)propanoic acid--2,2,2-trifluoroacetic acid	NA	NA	C28H36Cl3F3N4O6 (TFA Salt) C26H35Cl3N4O4 (Free base)	687.96 (TFA Salt) 573.94 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1802		Melphalan Impurity-B Hydrochloride	N[C@@H](CC1=CC=C(N2CCOCC2)C=C1)C(O)=O.Cl	Impurity	DCTI-C-754	(S)-2-amino-3-(4-morpholinophenyl)propanoic acid hydrochloride	NA	NA	C13H19ClN2O3 (HCl Salt) C13H18N2O3 (Free Base)	286.76 (HCl Salt) 250.30 (Free Base)
1803		Melphalan morpholine phthalimide methyl ester impurity	O=C(OC)[C@H](CC1=CC=C(N2CCOCC2)C=C1)N3C(C(C=CC=C4)=C4C3=O)=O	Impurity	DCTI-C-755	methyl (S)-2-(1,3-dioxoisoindolin-2-yl)-3-(4-morpholinophenyl)propanoate	NA	Melphalan impurity	C22H22N2O5	394.43
1804		Melphalan Isopropyl Ester	N[C@@H](CC1=CC=C(N(CCCl)CCCl)C=C1)C(OC(C)C)=O	Impurity	DCTI-C-756	isopropyl (S)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanoate	104874-57-9	Sarcolysin isopropyl ester	C16H24Cl2N2O2	347.28
1805		Dihydroxy Melphalan	O=C(O)[C@@H](N)CC1=CC=C(N(CCO)CCO)C=C1	Impurity	DCTI-C-815	(S)-2-amino-3-(4-(bis(2-hydroxyethyl)amino)phenyl)propanoic acid	72143-20-5	NA	C13H20N2O4	268.31
1806		Melphalan EP impurity-F	N[C@H](C(O)=O)CC1=CC(Cl)=C(N(CCCl)CCCl)C=C1	Impurity	DCTI-C-866	(S)-2-amino-3-(4-(bis(2-chloroethyl)amino)-3-chlorophenyl)propanoic acid	NA	3-Chloro Melphalan	C13H17Cl3N2O2	339.64
1807		Melphalan Impurity-C	N[C@H](C(O)=O)CC1=CC=C(NCCCl)C=C1	Impurity	DCTI-C-867	(S)-2-amino-3-(4-((2-chloroethyl)amino)phenyl)propanoic acid	573704-41-3	NA	C11H15ClN2O2	242.7

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1808		D-Isomer Melphalan	O=C(O)[C@H](N)CC1=CC=C(N(CCCl)CCCl)C=C1.O=C(O)C(F)(F)F	Impurity	DCTI-C-868	(R)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanoicacid ,2,2,2-trifluoro acetic acid	13045-94-8 (Free base)	NA	C13H18Cl2N2O2 (Free Base) C15H19Cl2F3N2O4 (TFA Salt)	305.20 (Free Base) 419.22 (TFA Salt)
1809		Melphalan EP Impurity E	O=C(O)[C@@H](N)CC1=CC=C(N(CCCl)CCOCC)C=C1	Impurity	DCTI-C-3355	(S)-2-amino-3-(4-((2-chloroethyl)(2-ethoxyethyl)amino)phenyl)propanoic acid	NA	Ethoxy Dechloromelphalan	C15H23ClN2O	314.81
1810		4-(naphthalen-1-yloxy)-4-oxobutanoic acid	O=C(CCC(O)=O)OC1=CC=CC2=CC=CC=C21	IMPURITY	DCTI-C-3258	4-(naphthalen-1-yloxy)-4-oxobutanoic acid	297140-39-7	(1-Naphthalenyl) butanedioa	C14H12O4	244.25
1811	**Menbutone**	4-(4-hydroxynaphthalen-1-yl)-4-oxobutanoic acid	OC1=CC=C(C(CCC(O)=O)=O)C2=CC=CC=C21	IMPURITY	DCTI-C-3244	4-(4-hydroxynaphthalen-1-yl)-4-oxobutanoic acid	10441-51-7	1-Naphthalenebutyric acid, 4-hydroxy-γ-oxo- (8CI);4-Hydroxy-γ-oxo-1-naphthalenebutanoic acid (ACI);Propionic acid, 3-(4-hydroxy-1-naphthoyl)- (6CI, 7CI)	C14H12O4	244.25
1812		Methyl 4-(4-hydroxynaphthalen-1-yl)-4-oxobutanoate	O=C(CCC(C1=CC=C(C2=C1C=CC=C2)O)=O)O	Impurity	DCTI-C-3251	4-(4-hydroxynaphthalen-1-yl)-4-oxobutanoic acid	702700-84-3	Demethylbutanone methyl ester	C14H12O4	244.25
1813	**Mepivacaine**	Mepivacaine EP Impurity-D	CC1=C(NC(C2N(C)CCC=C2)=O)C(C)=CC=C1	impurity	DCTI-C-2072	N-(2,6-dimethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine-2-carboxamide	NA	(2RS)-N-(2,6-dimethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine-2-carboxamide.	C15H20N2O	244.34
1814	**Mesalamine**	5-[2-formyl-5-(hydroxymethyl)-1h-pyrrol-1-yl]-2-hydroxybenzoic acid	OC(C1=C(O)C=CC(N2C(C=O)=CC=C2CO)=C1)=O	Impurity	DCTI-C-537	5-(2-formyl-5-(hydroxymethyl)-1H-pyrrol-1-yl)-2-hydroxybenzoic acid	876903-48-9	Mesalamine Impurity 1	C13H11NO5	261.23

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1815		3,5-diamino-2-hydroxybenzoic acid Hydrochloride	NC1=CC(N)=CC(C(O)=O)=C1O.[2HCl]	Impurity	DCTI-C-2907	3,5-diamino-2-hydroxybenzoic acid dihydrochloride	2514682-10-9	3,5-Diaminosalicylic acid Dihydrochloride	C7H8N2O3 (free base) ; C7H10Cl2N2O3 (HCl salt)	241.07 (HCl salt) ; 168.15 (free base)
1816	Methazolamide	Methazolamide impurity-C	CC(/N=C1SC(SCC2=CC=CC=C2)=NN/1C)=O	impurity	DCTI-C-1906	(E)-N-(5-(benzylthio)-3-methyl-1,3,4-thiadiazol-2(3H)-ylidene)acetamide	NA	Acetamide, N-[2-(benzylthio)-4-methyl-Δ2-1,3,4-thiadiazolin-5-ylidene]- (6CI; N-[3-Methyl-5-[(phenylmethyl)thio]-1,3,4-thiadiazol-2(3H)-ylidene]acetamide; Δ2-1,3,4-Thiadiazoline, 5-(acetylimino)-2-	C12H13N3OS2	279.38
1817		N-(5-(benzylthio)-1,3,4-thiadiazol-2-yl)-N-methylacetamide	CC(N(C)C1=NN=C(SCC2=CC=CC=C2)S1)=O	impurity	DCTI-C-1907	N-(5-(benzylthio)-1,3,4-thiadiazol-2-yl)-N-methylacetamide	NA	1,3,4-Thiadiazole, 2-(benzylthio)-5-N-methylacetamido- (6CI); Methazolamide Un Known impurity	C12H13N3OS2	279.38
1818		Methotrexate Impurity C	CN(C1=CC=C(C(N[C@H](C(O)=O)CCC(O)=O)=O)C=C1)CC2=NC3=C(N=C2)N=C(N)NC3=O	impurity	DCTI-C-1282	(4-(((2-amino-4-oxo-3,4-dihydropteridin-6-yl)methyl)(methyl)amino)benzoyl)-L-glutamic acid	2410-93-7	N10-Methyl Folic Acid; N10-Methylpteroylglutamic Acid; NSC 107144; Methotrexate USP Related Compound C; Methotrexate EP Impurity C	C20H21N7O6	455.43
1819		Methotrexate Impurity H	CN(C1=CC=C(C(N[C@H](C(O)=O)CCC(OC)=O)=O)C=C1)CC2=NC3=C(N=C2)N=C(N)N=C3N	impurity	DCTI-C-1408	(S)-2-(4-(((2,4-diaminopteridin-6-yl)methyl)(methyl)amino)benzamido)-5-methoxy-5-oxopentanoic acid	67022-39-3	NA	C21H24N8O5	468.47
1820		Methotrexate Impurity A	OCC1=NC2=C(N=C1)N=C(N)N=C2N.Cl	Impurity	DCTI-C-1778	(2,4-diaminopteridin-6-yl)methanol hydrochloride	NA	2,4-Diaminopyrimido[4,5-b]pyrazine-6-methanol Monohydrochloride; 4-Diamino-6-pteridinemethanol Hydrochloride	C7H8N6O (Free base) C7H9ClN6O (Salt)	192.18 (Free base) 228.64 (Salt)

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1821	Methotrexate	Methotrexate Impurity D	CN(C1=CC=C(C(O)=O)C=C1)CC2=NC3=C(N=C2)N=C(N)NC3=O	impurity	DCTI-C-1283	4-(((2-amino-4-oxo-3,4-dihydropteridin-6-yl)methyl)(methyl)amino)benzoic acid	5623-18-7	Metfol-B, Methotrexate EP Impurity D; NSC 408937	C15H14N6O3	326.32
1822		Methotrexate Impurity B	O=C(N[C@H](C(O)=O)CCC(O)=O)C(C=C1)=CC=C1NCC2=NC3=C(N=C2)N=C(N)N=C3N	impurity	DCTI-C-1412	(4-(((2,4-diaminopteridin-6-yl)methyl)amino)benzoyl)-L-glutamic acid	54-62-6	4-Aminofolic Acid, 4-Aminopteroyl-L-glutamic Acid, 4-Amino-PGA; NSC 739; USP Methotrexate Related Compound B; Methotrexate EP Impurity B; 4-Amino-PGA; Aminopterin	C19H20N8O5	440.42
1823		Methotrexate Impurity I	CN(C1=CC=C(C(N[C@H](C(OC)=O)CCC(O)=O)=O)C=C1)CC2=NC3=C(N=C2)N=C(N)N=C3N.[H]C(O)=O	impurity	DCTI-C-1413	(S)-4-(4-(((2,4-diaminopteridin-6-yl)methyl)(methyl)amino)benzamido)-5-methoxy-5-oxopentanoic acid formate	NA	Methotrexate EP Impurity I; Methotrexate EP Impurity I Formate salt	C21H24N8O5 (Free base) C22H26N8O7 (Salt)	468.47 (Free base) 514.50 (Salt)
1824		Methotrexate Impurity E	CN(C1=CC=C(C(O)=O)C=C1)CC2=NC3=C(N=C2)N=C(N)N=C3N	impurity	DCTI-C-1284	4-(((2,4-diaminopteridin-6-yl)methyl)(methyl)amino)benzoic acid	19741-14-1	NSC 131463; NSC 133723	C15H15N7O2	325.33
1825		Methotrexate Impurity F (Isomer)	CN(C1=CC=C(C(N[C@@H](C(O)=O)CCC(O)=O)=O)C=C1)CC2=NC3=C(N=C2)N=C(N)N=C3N	impurity	DCTI-C-1243	(4-(((2,4-diaminopteridin-6-yl)methyl)(methyl)amino)benzoyl)-D-glutamic acid	NA	NA	C20H22N8O5	454.45
1826		(4-(Methylamino)benzoyl)-D-glutamic acid	OC(CC[C@H](C(O)=O)NC(C1=CC=C(C=C1)NC)=O)=O	IMPURITY	DCTI-C-2595	(4-(methylamino)benzoyl)-D-glutamic acid	52030-86-1	2R)-2-[[4-(methylamino)benzoyl]amino]pentanedioic acid	C13H16N2O5	280.28

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1827		(S)-5-ethoxy-2-(4-(methylamino)benzamido)-5-oxopentanoic acid	CNC1=CC=C(C(N[C@H](C(O)=O)CCC(OCC)=O)=O)C=C1	Impurity	DCTI-C-3058	(S)-5-ethoxy-2-(4-(methylamino)benzamido)-5-oxopentanoic acid	NA	L-Glutamic acid γ-ethyl ester impurity	C15H20N2O5	308.33
1828		(S)-5-ethoxy-4-(4-(methylamino)benzamido)-5-oxopentanoic acid	CNC1=CC=C(C(N[C@H](C(OCC)=O)CCC(O)=O)=O)C=C1	Impurity	DCTI-C-3057	(S)-5-ethoxy-4-(4-(methylamino)benzamido)-5-oxopentanoic acid	NA	L-Glutamic acid α-ethyl ester impurity	C15H20N2O5	308.33
1829		Methotrexate γ-Ethyl Ester	CN(CC1=NC2=C(N)N=C(N)N=C2N=C1)C3=CC=C(C(N[C@H](C(O)=O)CCC(OCC)=O)=O)C=C3.FC(F)(C(O)=O)F	Impurity	DCTI-C-3084	(S)-2-(4-(((2,4-diaminopteridin-6-yl)methyl)(methyl)amino)benzamido)-5-ethoxy-5-oxopentanoic acid compound with 2,2,2-trifluoroacetic acid	65148-64-3 (Free base)	γ-Monoethyl methotrexate	C24H27F3N8O7 (with Salt)C22H26N8O5 (Free Acid)	596.52 (With Salt)482.50 (Free Acid)
1830		Methotrexate Dimethylester Hydrochloride	O=C(OC)[C@@H](NC(C1=CC=C(N(CC2=NC3=C(N)N=C(N)N=C3N=C2)C)C=C1)=O)CCC(OC)=O.[H]Cl	Impurity	DCTI-C-3300	dimethyl (4-(((2,4-diaminopteridin-6-yl)methyl) (methyl)amino)benzoyl)-L-glutamate	34378-65-9 (Free base)	((S)-Dimethyl-2-(4-{[(2,4-diaminopteridin-6-yl)methyl](methyl)amino}benzamido) pentanedioate hydrochloride); Methotrexate EP Impurity J	C22H27ClN8O5 (HCl Salt);C22H26N8O5 (Free base)	482.50 (Free base);518.96 (HCl Salt)
1831		N-(4-nitrophenyl)-2-chloro-N-methylacetamide	CN(C(CCl)=O)C1=CC=C([N+]([O-])=O)C=C1	Impurity	DCTI-C-3352	2-chloro-N-methyl-N-(4-nitrophenyl)acetamide	2653-16-9	α-Chloro-N-methyl-p-nitroacetanilide	C9H9ClN2O3	228.63
1832	**Methyldopa**	3-O-Methylmethyldopa	CC(N)(C(O)=O)CC1=CC(OC)=C(O)C=C1	impurity	DCTI-C-1749	2-amino-3-(4-hydroxy-3-methoxyphenyl)-2-methylpropanoic acid	15073-80-0	DL-Tyrosine; Tyrosine; DL-(8CI); DL-3-O-Methyl-α-methyldopa	C11H15NO4	225.24
1833		Methyldopa related compound C	CC(N)(C(O)=O)CC1=CC(OC)=C(OC)C=C1	impurity	DCTI-C-1750	2-amino-3-(3,4-dimethoxyphenyl)-2-methylpropanoic acid	10128-06-0	NA	C12H17NO4	239.27
1834		Methyldopa related compound-B	CC(N)(C(O)=O)CC1=CC=C(OC)C=C1	impurity	DCTI-C-1751	2-amino-3-(4-methoxyphenyl)-2-methylpropanoic acid	7383-30-4	DL-Tyrosine; O,α-Dimethyltyrosine	C11H15NO3	209.25

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1835	Methylprednisolone	Methyl Prednisolone Impurity-D (E-Isomer)	O=C1C=C[C@@]2(C)C([C@@H](C)C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC/C4=C(O)/C=O)=C1	impurity	DCTI-C-1859	(E)-2-hydroxy-2-((6S,8S,9S,10R,11S,13S,14S)-11-hydroxy-6,10,13-trimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)acetaldehyde.	NA	NA	C22H28O4	356.46
1836		Methylprednisolone (Impurity B Ph.Eur)	O=C1C=C[C@@]2(C)C([C@@H](C)C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC[C@]4(O)C(COC(C)=O)=O)=C1	impurity	DCTI-C-1860	2-((6S,8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	NA	Methylprednisolone acetate	C24H32O6	416.51
1837		Methylprednisolone Acetate EP Impurity A	O[C@]1([C@](COC(C)=O)([H])O)CC[C@@]2([H])[C@]3([H])C[C@H](C)C4=CC(C=C[C@]4(C)[C@@]3([H])[C@@H](O)C[C@@]21C)=O	Impurity	DCTI-C-2787	(R)-2-((6S,8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-hydroxyethyl acetate	93963-74-7	6α-Methyl-20(R)-hydroxy Prednisolone 21-Acetate	C24H34O6	418.53
1838		Methylprednisolone Ethylothopropionate	C[C@@]12[C@@]3(C(COC(OCC)(O3)CC)=O)CC[C@@]1([H])[C@]4([H])C[C@H](C)C5=CC(C=C[C@]5(C)[C@@]4([H])[C@@H](O)C2)=O	Impurity	DCTI-C-3456	(6S,8S,9S,10R,11S,13S,14S,17R)-2'-ethoxy-2'-ethyl-11-hydroxy-6,10,13-trimethyl-7,8,9,10,11,12,13,14,15,16-decahydrospiro[cyclopenta[a]phenanthrene-17,4'-[1,3]dioxane]-3,5'(6H)-dione	85198-27-2	6alpha-Methyl Prednisolone 17,21-(Ethyl)orthopropionate	C27H38O6	458.6
1839		11β-Hydroxy-6α-methyl-3-oxoandrosta-1,4-diene-17β-carboxylic acid	O=C1C=C[C@]2(C)[C@@]3([H])C(O)C[C@]4(C)[C@](C(O)=O)(O)CC[C@@]4([H])[C@]3([H])C[C@H](C)C2=C1	Impurity	DCTI-C-3459	(6S,8S,9S,10R,13S,14S,17R)-11,17-dihydroxy-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	167997-11-7	(6α,11β,17α)-11,17-Dihydroxy-6-methyl-3-oxoandrosta-1,4-diene-17-carboxylic Acid.	C21H28O5	360.45
1840		6α Methylprednisolone 21-Propiyonate	CCC(OCC([C@@]1(O)CC[C@@]2([H])[C@]3([H])C[C@H](C)C4=CC(C=C[C@]4(C)[C@@]3([H])[C@@H](O)C[C@]12C)=O)=O)=O	Impurity	DCTI-C-3458	2-((6S,8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl propionate	138804-88-3	NA	C25H34O6	430.54
1841		6α Methylprednisolone 17-Propiyonate	CCC(O[C@]1(C(CO)=O)CC[C@@]2([H])[C@]3([H])C[C@H](C)C4=CC(C=C[C@]4(C)[C@@]3([H])[C@@H](O)C[C@]12C)=O)=O	Impurity	DCTI-C-3457	(6S,8S,9S,10R,11S,13S,14S,17R)-11-hydroxy-17-(2-hydroxyacetyl)-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl propionate	79512-61-1	Methylprednisolone 17-Propionate; (6α,11β)-11,21-Dihydroxy-6-methyl-17-(1-oxopropoxy)pregna-1,4-diene-3,20-dione.	C25H34O6	430.54
1842		6α Methylprednisolone 17 Acetate	CC(O[C@]1(C(CO)=O)CC[C@@]2([H])[C@]3([H])C[C@H](C)C4=CC(C=C[C@]4(C)[C@@]3([H])[C@@H](O)C[C@]12C)=O)=O	IMPURITY	DCTI-C-3486	(6S,8S,9S,10R,11S,13S,14S,17R)-11-hydroxy-17-(2-hydroxyacetyl)-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl acetate	86401-94-7	17-O-Acetyl-6-methylprednisolone; (6α,11β)-17-(Acetyloxy)-11,21-dihydroxy-6-methylpregna-1,4-diene-3,20-dione.	C24H32O6	416.51

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1843		11β Hydroxy 6 methyl 3 oxo 17α propionyloxy-1,4,andronstadiene-17β carboxylic acid	O=C1C=C[C@]2(C)[C@@]3([H])[C@@H](O)C[C@]4(C)[C@](C(O)=O)(OC(CC)=O)CC[C@@]4([H])[C@]3([H])C[C@H](C)C2=C1	IMPURITY	DCTI-C-3495	(6S,8S,9S,10R,11S,13S,14S,17R)-11-hydroxy-6,10,13-trimethyl-3-oxo-17-(propionyloxy)-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	NA	NA	C24H32O6	416.51
1844	**Metolazone**	meta-Metolazone	O=S(C1=CC2=C(NC(C)N(C3=CC=CC(C)=C3)C2=O)C=C1Cl)(N)=O	Impurity	DCTI-C-3643	7-chloro-2-methyl-4-oxo-3-(m-tolyl)-1,2,3,4-tetrahydroquinazoline-6-sulfonamide	50869-25-5	N-Des(o-tolyl)-N-(m-tolyl) Metolazone	C16H16ClN3O3S	365.83
1845		Desmethyl metolazone	O=S(C1=CC2=C(NC(C)N(C3=CC=CC=C3)C2=O)C=C1Cl)(N)=O	Impurity	DCTI-C-3641	7-chloro-2-methyl-4-oxo-3-phenyl-1,2,3,4-tetrahydroquinazoline-6-sulfonamide	28524-40-5	NA	C15H14ClN3O3S	351.81
1846		para-Metolazone	O=S(C1=CC2=C(NC(C)N(C3=CC=C(C)C=C3)C2=O)C=C1Cl)(N)=O	Impurity	DCTI-C-3649	7-chloro-2-methyl-4-oxo-3-(p-tolyl)-1,2,3,4-tetrahydroquinazoline-6-sulfonamide	28508-63-6	N-Des(o-tolyl)-N-(p-tolyl) metolazone	C16H16ClN3O3S	365.83
1847		Didehydrometolazone	O=S(C1=CC2=C(N=C(C)N(C3=CC=CC=C3C)C2=O)C=C1Cl)(N)=O	Impurity	DCTI-C-3642	7-chloro-2-methyl-4-oxo-3-(o-tolyl)-3,4-dihydroquinazoline-6-sulfonamide	4015-23-0	3,4-Didehydro Metolazone	C16H14ClN3O3S	363.82
1848		Metolazone benzamide analog	O=C(NC1=CC=CC=C1C)C2=CC(S(=O)(N)=O)=C(Cl)C=C2N	Impurity	DCTI-C-3648	2-amino-4-chloro-5-sulfamoyl-N-(o-tolyl)benzamide	23380-54-3	NA	C14H14ClN3O3S	339.79
1849		Metoprolol EP Impurity N	CC(NCC(O)CO)C.Cl	impurity	DCTI-C-2074	3-(isopropylamino)propane-1,2-diol hydrochloride	NA	(2RS)-3-[(1-methylethyl)amino]propane-1,2-diol	C6H15NO2 (Free base) C6H16ClNO2 (HCl Salt)	133.19 (Free base) 169.65 (HCl Salt)
1850		Metoprolol EP Impurity D	COCCC1=CC=C(OCC(CO)O)C=C1	impurity	DCTI-C-2075	3-(4-(2-methoxyethyl)phenoxy)propane-1,2-diol	62572-90-1	Metoprolol Impurity D.	C12H18O4	226.27

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1851	Metoprolol	Metoprolol EP Impurity J	OC(COCC(O)CNC(C)C)COC1=CC=C(CCOC)C=C1	impurity	DCTI-C-2076	1-(2-hydroxy-3-(4-(2-methoxyethyl)phenoxy)propoxy)-3-(isopropylamino)propan-2-ol	163685-37-8	Metoprolol Impurity J; 3-[2-Hydroxy-3-[4-(2-methoxyethyl)phenoxy]propoxy]-1-isopropylamino-2-propanol.	C18H31NO5	341.45
1852		Metoprolol EP Impurity H	OCCC1=CC=C(OCC(CNC(C)C)O)C=C1	Metabolite	DCTI-C-2077	1-(4-(2-hydroxyethyl)phenoxy)-3-(isopropylamino)propan-2-ol	62572-94-5	O-Desmethyl Metoprolol; Ortho-Desmethylmetoprolol; Metoprolol Impurity H; Betaxolol EP Impurity B.	C14H23NO3	253.34
1853		Metoprolol EP Impurity G	OC1=CC=C(CCO)C=C1	impurity	DCTI-C-2078	4-(2-hydroxyethyl)phenol	501-94-0	2-(4-hydroxyphenyl)-ethanol; Tyrosol; 4-Hydroxyphenethylalcohol	C8H10O2	138.17
1854		Metoprolol EP Impurity B	OC1=CC=C(CCO)C=C1	impurity	DCTI-C-2079	4-(2-methoxyethyl)phenol	56718-71-9	p-Hydroxyphenethyl methyl ether.	C9H12O2	152.19
1855		Ortho-metoprolol	OC(CNC(C)C)COC1=C(CCOC)C=CC=C1	impurity	DCTI-C-2080	1-(isopropylamino)-3-(2-(2-methoxyethyl)phenoxy)propan-2-ol	163685-38-9	Metoprolol EP Impurity E.	C15H25NO3	267.37
1856		Metoprolol EP Impurity F	OC(CNC(C)C)COC1=CC=CC=C1	impurity	DCTI-C-2081	1-(isopropylamino)-3-phenoxypropan-2-ol	7695-63-8	1-[(1-Methylethyl)amino]-3-phenoxy-2-propanol; Metoprolol Impurity F.	C12H19NO2	209.29

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1857		1,3-Bis(isopropylamino)propan-2-ol	CC(NCC(O)CNC(C)C).[2HCl]	impurity	DCTI-C-2082	1,3-bis(isopropylamino)propan-2-ol dihydrochloride	73313-36-7	metoprolol EP impurity m; Metoprolol Impurity M diHCl.	C9H22N2O (Free base) C9H24Cl2N2O (HCl Salt)	174.29 (Free base) 247.20 (HCl Salt)
1858		Metoprolol Bis propanol	COCCC1=CC=C(OCC(COC2=CC=C(CCOC)C=C2)O)C=C1	impurity	DCTI-C-2083	1,3-bis(4-(2-methoxyethyl)phenoxy)propan-2-ol	230975-30-1	1,3-bis(4-(2-methoxyethyl)phenoxy) 2-hydroxypropane; Metoprolol Dimer	C21H28O5	360.45
1859		N-Nitrosometoprolol	OC(CN(C(C)C)N=O)COC1=CC=C(CCOC)C=C1	NDSRI	DCTI-C-3076	N-(2-hydroxy-3-(4-(2-methoxyethyl)phenoxy)propyl)-N-isopropylnitrous amide	138768-62-4	Metoprolol Nitroso Impurity mixture of isomer	C15H24N2O4	296.37
1860	**Metoclopramide**	4-amino-3-chloro-N-(2-(diethylamino)ethyl)-2-methoxybenzamide	NC1=CC=C(C(NCCN(CC)CC)=O)C(OC)=C1Cl	Impurity	DCTI-C-3178	4-amino-3-chloro-N-(2-(diethylamino)ethyl)-2-methoxybenzamide	58590-44-6	Metoclopramide 3-chloro Isomer	C14H22ClN3O2	299.8
1861	**Mifepristone**	N-Desmethyl Mifepristone	C[C@@]12[C@](O)(C#CC)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@@H](C5=CC=C(NC)C=C5)C2)=O	Metabolite	DCTI-C-3494	(8S,11R,13S,14S,17S)-17-hydroxy-13-methyl-11-(4-(methylamino)phenyl)-17-(prop-1-yn-1-yl)-1,2,6,7,8,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	104004-96-8	Metapristone	C28H33NO2	415.58
1862		Hydroxy Mifepristone	C[C@@]12[C@](O)(C#CCO)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@@H](C5=CC=C(N(C)C)C=C5)C2)=O	Metabolite	DCTI-C-3498	(8S,11R,13S,14S,17S)-11-(4-(dimethylamino)phenyl)-17-hydroxy-17-(3-hydroxyprop-1-yn-1-yl)-13-methyl-1,2,6,7,8,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	105012-15-5	22-Hydroxy Mifepristone; (11β,17β)-11-[4-(Dimethylamino)phenyl]-17-hydroxy-17-(3-hydroxy-1-propyn-1-yl)-estra-4,9-dien-3-one	C29H35NO3	445.6
1863		4-Epiminocycline	O=C1C(C(N)=O)=C(O)[C@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC(N(C)C)=C3C4)=O)[C@]4([H])C2	Impurity	DCTI-C-038	(4R,4aR,5aS,12aR)-4,7-bis(dimethylamino)-3,10,11,12a-tetrahydroxy-1,12-dioxo-1,4,4a,5,5a,6,12,12a-octahydrotetracene-2-carboxamide	27179-27-7	NA	C23H27N3O7	457.48

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1864	Minocycline	N2-Hydroxymethyl Minocycline	O=C1C(C(NCO)=O)=C(O)[C@@H](N(C)C)[C@]2([H])[C@@]1(O)C(O)=C(C(C3=C(O)C=CC(N(C)C)=C3C4)=O)[C@@]4([H])C2	Impurity	DCTI-C-039	(4S,4aR,5aS,12aR)-4,7-bis(dimethylamino)-3,10,11,12a-tetrahydroxy-N-(hydroxymethyl)-1,12-dioxo-1,4,4a,5,5a,6,12,12a-octahydrotetracene-2-carboxamide	NA	NA	C24H29N3O8	487.51
1865		Sancycline	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC=C3C4)=O)[C@]4([H])C2	Impurity	DCTI-C-040	(4S,4aS,5aR,12aS)-4-(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	808-26-4	GS 2147	C21H22N2O7	414.41
1866		Minocycline Dehydro analogue	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@](CC2=CC3=C(N(C)C)C=CC(O)=C3C(O)=C24)([H])[C@]1(O)C4=O	Impurity	DCTI-C-041	(4S,4aS,12aS)-4,7-bis(dimethylamino)-3,10,11,12a-tetrahydroxy-1,12-dioxo-1,4,4a,5,12,12a-hexahydrotetracene-2-carboxamide	1346598-44-4	NA	C23H25N3O7	455.47
1867		7-Amino sancycline	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC(N)=C3C4)=O)[C@]4([H])C2	Impurity	DCTI-C-113	(4S,4aS,5aR,12aS)-7-amino-4-(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	5679-00-5	NA	C21H23N3O7	429.43
1868		12-Imino-delta-minocycline	O=C(C(C([C@](C(C(C(N)=O)=C(O)[C@@H]1N(C)C)=O)(O)[C@]1([H])C2)=N)[C@]2([H])C3)C4=C3C(N(C)C)=CC=C4O	Impurity	DCTI-C-120	(4R,4aR,5aS,12aR)-4,7-bis(dimethylamino)-3,10,12a-trihydroxy-12-imino-1,11-dioxo-1,4,4a,5,5a,6,11,11a,12,12a-decahydrotetracene-2-carboxamide	NA	NA	C23H28N4O6	456.5
1869		7-Monomethyl minocycline	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC(NC)=C3C4)=O)[C@]4([H])C2	Impurity	DCTI-C-144	(4S,4aS,5aR,12aS)-4-(dimethylamino)-3,10,12,12a-tetrahydroxy-7-(methylamino)-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	4708-96-7	NA	C22H25N3O7	443.46
1870		9-Amino sancycline	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C(N)=CC=C3C4)=O)[C@]4([H])C2	Impurity	DCTI-C-145	(4S,4aS,5aR,12aS)-9-amino-4-(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	4199-34-2	NA	C21H23N3O7	429.43

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1871		7-Ethyl Methyl amino Minocycline	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@@]2([H])[C@]1(O)C(O)=C(C(C3=C(O)C=CC(N(C)CC)=C3C4)=O)[C@]4([H])C2	Impurity	DCTI-C-175	(4S,4aS,5aR,12aS)-4-(dimethylamino)-7-(ethyl(methyl)amino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	32598-29-1	NA	C24H29N3O7	471.51
1872		9-Aminominocycline Hydrochloride	O=C(N)C1=C(O)[C@@H](N(C)C)[C@]2([H])C[C@](C3=C(O)[C@]2(O)C1=O)([H])CC4=C(N(C)C)C=C(N)C(O)=C4C3=O.Cl	Impurity	DCTI-C-385	(4S,4aS,5aR,12aS)-9-amino-4,7-bis(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide hydrochloride	149934-21-4	NA	C23H29ClN4O7 (HCl Salt) C23H28N4O7 (Free Base)	508.96 (HCl Salt) 472.50 (Free Base)
1873		9-Dimethylamino Minocycline Hydrochloride	O=C(N)C1=C(O)[C@@H](N(C)C)[C@]2([H])C[C@](C3=C(O)[C@]2(O)C1=O)([H])CC4=C(N(C)C)C=C(N(C)C)C(O)=C4C3=O.Cl	Impurity	DCTI-C-386	(4S,4aS,5aR,12aS)-4,7,9-tris(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide hydrochloride	601455-95-2 (Without Salt)	NA	C25H33ClN4O7 (HCl Salt) C25H32N4O7 (Free Base)	537.01 (HCl Salt) 500.55 (Free Base)
1874		9-Monomethyl minocycline (RRT 0.85 impurity)	NC(C1=C(O)[C@@H](N(C)C)C2CC(C3=C(O)[C@]2(O)C1=O)CC4=C(N(C)C)C=C(NC)C(O)=C4C3=O)=O	Impurity	DCTI-C-663	(4S,12aS)-4,7-bis(dimethylamino)-3,10,12,12a-tetrahydroxy-9-(methylamino)-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide	NA	Minocycline RRT 0.85 impurity	C24H30N4O7	486.53
1875		Minocycline related impurity (Impurity RRT 0.88)	OC1=C2C(C[C@](C[C@]([C@H](N(C)C)C(O)=C(C(N)=O)C3=O)([H])[C@]3(O)C4O)([H])C4C2O)=C(O)C=C1	Impurity	DCTI-C-664	(4S,4aS,5aR,12aS)-4-(dimethylamino)-3,7,10,11,12,12a-hexahydroxy-1-oxo-1,4,4a,5,5a,6,11,11a,12,12a-decahydrotetracene-2-carboxamide	NA	Minocycline Impurity RRT 0.88	C21H26N2O8	434.45
1876	**Minoxidil**	2,4-diamino-6-ethoxy pyrimidine	NC1=NC(OCC)=CC(N)=N1	Impurity	DCTI-C-538	6-ethoxypyrimidine-2,4-diamine	116436-03-4	NSC 9305	C6H10N4O	154.17
1877		Mirogabalin Enantiomer	OC(C[C@]1([C@]2([H])[C@](CC(CC)=C2)([H])C1)CN)=O	Impurity	DCTI-C-2829	2-((1S,5R,6R)-6-(aminomethyl)-3-ethylbicyclo[3.2.0]hept-3-en-6-yl)acetic acid	1138245-15-4	NA	C12H19NO2	209.29

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1878	**Mirogabalin**	Racemic Mixture of Mirogabalin (Benzene sulfonic acid salt)	CCC1=C[C@]2([H])[C@](C[C@]23CC(NC3)=O)([H])C1	Impurity	DCTI-C-3183	2-(6-(aminomethyl)-3-ethylbicyclo[3.2.0]hept-3-en-6-yl)acetic acid compound with benzenesulfonic acid	NA	Racemic Mirogabalin besylate	C18H25NO5S (Salt)C12H19NO2 (Free Base)	367.46(Salt)209.29 (Free Base)
1879		Mirogabalin Lactam Impurity	CCC1=C[C@]2([H])[C@](C[C@]23CC(NC3)=O)([H])C1	Impurity	DCTI-C-3182	(1R,5S,6S)-3-ethylspiro[bicyclo[3.2.0]heptane-6,3'-pyrrolidin]-3-en-5'-one	NA	NA	C12H17NO	191.27
1880		ethyl 3-oxo-3-thioureidopropanoate	NC(NC(CC(OCC)=O)=O)=S	Impurity	DCTI-C-483	ethyl 3-oxo-3-thioureidopropanoate	NA	Mirabegron Impurity	C6H10N2O3S	190.22
1881		2-(2-nitrophenyl)ethane amine	NCCC1=CC=CC=C1[N+]([O-])=O	Impurity	DCTI-C-484	2-(2-nitrophenyl)ethan-1-amine	NA	O-Nitrophenylethylamine; 2-Nitrobenzene ethanamine; Mirbegron Impurity 24	C8H10N2O2	166.18
1882		Mirabegron Dimer Impurity	O=C(CC1=CSC(N)=N1)NC2=CC=C(CCN(C(CC3=CSC(N)=N3)=O)C[C@@H](C4=CC=CC=C4)O)C=C2	impurity	DCTI-C-2129	(R)-2-(2-aminothiazol-4-yl)-N-(4-(2-(2-aminothiazol-4-yl)acetamido)phenethyl)-N-(2-hydroxy-2-phenylethyl)acetamide	1684452-83-2	N-(2-Amino-4-thiazolyl)acetyl Mirabegron; Mirabegron Impurity 4; Mirabegron Diamide 1.	C26H28N6O3S2	536.67
1883		2-(3-nitrophenyl)ethane amine	NCCC1=CC([N+]([O-])=O)=CC=C1	Impurity	DCTI-C-485	2-(3-nitrophenyl)ethan-1-amine	NA	NA	C8H10N2O2	166.18
1884		N-Methyl Mirabegron Impurity	NC1=NC(CC(NC(C=C2)=CC=C2CCN(C)C[C@H](O)C3=CC=CC=C3)=O)=CS1	Impurity	DCTI-C-1451	(R)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)(methyl)amino)ethyl)phenyl)acetamide	NA	NA	C22H26N4O2S	410.54

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1885	Mirabegron	Mirabegron impurity C	O[C@@H](CNCCC1=CC=C(N)C=C1)C2=CC=CC=C2	Impurity	DCTI-C-1445	(R)-2-((4-aminophenethyl)amino)-1-phenylethan-1-ol	391901-45-4	NA	C16H20N2O	256.35
1886		Cyanomethyl Mirabegron	NC1=NC(CC(NC(C=C2)=CC=C2CCN(CC#N)C[C@H](O)C3=CC=CC=C3)=O)=CS1	Impurity	DCTI-C-1446	(R)-2-(2-aminothiazol-4-yl)-N-(4-(2-((cyanomethyl)(2-hydroxy-2-phenylethyl)amino)ethyl)phenyl)acetamide	2416733-26-9	NA	C23H25N5O2S	435.55
1887		Mirabegron Impurity-R	O=C(CC1=CSC(N)=N1)NC2=CC=C(CCN(C=O)C[C@@H](C3=CC=CC=C3)O)C=C2	impurity	DCTI-C-1313	(R)-2-(2-aminothiazol-4-yl)-N-(4-(2-(N-(2-hydroxy-2-phenylethyl)formamido)ethyl)phenyl)acetamide	NA	NA	C22H24N4O3S	424.52
1888		2-(2,5-dinitrophenyl)ethan-1-amine hydrochloride	NCCC1=CC([N+]([O-])=O)=CC=C1[N+]([O-])=O.Cl	Impurity	DCTI-C-490	2-(2,5-dinitrophenyl)ethan-1-amine hydrochloride	NA	NA	C8H10ClN3O4	247.64
1889		2-(2,3-dinitrophenyl)ethan-1-amine hydrochloride	O=[N+](C1=CC=CC(CCN)=C1[N+]([O-])=O)[O-].Cl	Impurity	DCTI-C-492	2-(2,3-dinitrophenyl)ethan-1-amine hydrochloride	NA	NA	C8H10ClN3O4	247.64
1890		2-(3,4-dinitrophenyl)ethan-1-amine	NCCC1=CC=C([N+]([O-])=O)C([N+]([O-])=O)=C1	Impurity	DCTI-C-509	2-(3,4-dinitrophenyl)ethan-1-amine	NA	NA	C8H9N3O4	211.18
1891		(S)-Mirabegron	O=C(NC1=CC=C(CCNC[C@@H](O)C2=CC=CC=C2)C=C1)CC3=CSC(N)=N3	Impurity	DCTI-C-2569	(S)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)amino)ethyl)phenyl)acetamide	1796931-48-0	Mirabegron S-Isomer;Mirabegron impurity 1((s)-mirabegron)	C21H24N4O2S (Free base)	396.51 (Free base)

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1892		N-Nitroso Mirabegron	O=C(NC1=CC=C(CCN(N=O)C[C@H](O)C2=CC=CC=C2)C=C1)CC3=CSC(N)=N3	NDSRI	DCTI-C-2363	(R)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)(nitroso)amino)ethyl)phenyl)acetamide	NA	NA	C21H23N5O3S	425.5
1893		N-NITROSO MIRABEGRON S ISOMER	O=C(NC1=CC=C(CCN(C[C@@H](O)C2=CC=CC=C2)N=O)C=C1)CC3=CSC(N)=N3	NDSRI	DCTI-C-2556	(S)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)(nitroso)amino)ethyl)phenyl)acetamide	NA	N-NITROSO MIRABEGRON S ISOMER (Mixture of isomers)	C21H23N5O3S (free base)	425.5 (Free base)
1894		4-(2-(Phenethylamino)ethyl)aniline	NC(C=C1)=CC=C1CCNCCC2=CC=CC=C2	Impurity	DCTI-C-2984	4-(2-(Phenethylamino)ethyl)aniline	1310279-36-7	NA	C16H20N2	240.34
1895		Deoxymirabegron Dihydrochloride	O=C(NC1=CC=C(CCNCCC2=CC=CC=C2)C=C1)CC3=CSC(N)=N3.[2HCl]	Impurity	DCTI-C-3001	2-(2-aminothiazol-4-yl)-N-(4-(2-(phenethylamino)ethyl)phenyl)acetamide dihydrochloride	1581284-82-3 (Free base); 2095798-96-0 (dihydrochloride)	NA	C21H24N4OS (Free base) C21H26Cl2N4OS (HCl Salt)	380.51 (Free base) 453.43 (HCl Salt)
1896		N-(4-nitrophenethyl)-2-phenylethan-1-amine	O=[N+](C1=CC=C(C=C1)CCNCCC2=CC=CC=C2)[O-]	Impurity	DCTI-C-2943	N-(4-nitrophenethyl)-2-phenylethan-1-amine	1154949-80-0	NA	C16H18N2O2	270.33
1897	**Mirtazapine**	N-Desmethyl Mirtazapine	C12=C(N3C(CNCC3)C4=C(C2)C=CC=C4)N=CC=C1	Metabolite	DCTI-C-3221	1,2,3,4,10,14b-hexahydrobenzo[c]pyrazino[1,2-a]pyrido[3,2-f]azepine	61337-68-6	Mirtazapine Impurity-D; Desmethylmirtazapine; N-Demethylmirtazapine; Normirtazapine	C16H17N3	251.33
1898		Molnupiravir Impurity-A	CC1(C)O[C@@]2([H])[C@@]([C@H](N3C=CC(NO)=NC3=O)O[C@@H]2COC(C)(C)C)=O)([H])O1	Impurity	DCTI-C-1601	((3aR,4R,6R,6aR)-6-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxol-4-yl)methyl isobutyrate	NA	NA	C16H23N3O7	369.37

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1899		Molnupiravir Impurity-B	OC[C@@H]1[C@H]([C@H]([C@H](N2C(N=C(C=C2)NO)=O)O1)O)O	Metabolite	DCTI-C-1861	1-((2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-4-(hydroxyamino)pyrimidin-2(1H)-one	NA	Cytidine, N-hydroxy- (6CI, 7CI); EIDD 1931; N-Hydroxycytidine;N4-Hydroxycytidine; NHC.	C9H13N3O6	259.22
1900		Molnupiravir Impurity-A Enantiomer	CC(C(OC[C@H]1[C@H]2[C@H](OC(C)(C)O2)[C@@H](N3C=CC(NO)=NC3=O)O1)=O)C	impurity	DCTI-C-2084	((3aS,4S,6S,6aS)-6-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxol-4-yl)methyl isobutyrate	NA	NA	C16H23N3O7	369.37
1901		4-amino-1-((2S,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-2(1H)-one	O=C1N([C@H]2O[C@H](CO)[C@@H](O)[C@H]2O)C=CC(N)=N1	impurity	DCTI-C-2085	4-amino-1-((2S,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-2(1H)-one	13913-16-1	Molnupiravir Impurity, 4-Amino-1-alpha-D-ribofuranosyl-2(1H)-Pyrimidinone.	C9H13N3O5	243.22
1902		Molnupiravir Impurity-F Enantiomer	CC(C(OC[C@H]1[C@H]2[C@H](OC(C)(C)O2)[C@@H](N3C=CC(N)=NC3=O)O1)=O)C	impurity	DCTI-C-2086	((3aS,4S,6S,6aS)-6-(4-amino-2-oxopyrimidin-1(2H)-yl)-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxol-4-yl)methyl isobutyrate	NA	NA	C16H23N3O6	353.38
1903		Molnupiravir Anomer	O[C@@H]1[C@@H](COC(C(C)C)=O)O[C@H](N2C=C/C(NC2=O)=N/O)[C@@H]1O	impurity	DCTI-C-1605	((2R,3S,4R,5S)-3,4-dihydroxy-5-((Z)-4-(hydroxyimino)-2-oxo-3,4-dihydropyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methyl isobutyrate	NA	NA	C13H19N3O7	329.31
1904		Molnupiravir Impurity-E	O=C1N=C(N)C=CN1[C@@H]2O[C@H](CO)[C@@]3([H])OC(C)(C)O[C@]32[H]	Impurity	DCTI-C-1603	4-amino-1-((3aR,4R,6R,6aR)-6-(hydroxymethyl)-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxol-4-yl)pyrimidin-2(1H)-one	NA	NSC 520039	C12H17N3O5	283.28

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1905	Molnupiravir	Molnupiravir Enantiomer	CC(C(OC[C@H]1[C@H](O)[C@H](O)[C@@H](N2C=CC(NO)=NC2=O)O1)=O)C	Impurity	DCTI-C-1604	((2S,3R,4S,5S)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl) tetrahydrofuran-2-yl)methyl isobutyrate	NA	NA	C13H19N3O7	329.31
1906		Molnupiravir Impurity-F	CC(C)C(OC[C@H]1O[C@@H](N2C=CC(N)=NC2=O)[C@]3([H])OC(C)(C)O[C@@]31[H])=O	Impurity	DCTI-C-1602	((3aR,4R,6R,6aR)-6-(4-amino-2-oxopyrimidin-1(2H)-yl)-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxol-4-yl)methyl isobutyrate	NA	NA	C16H23N3O6	353.38
1907		Molnupiravir impurity-C	O=C1N=C(NO)C=CN1[C@H](O2)[C@H](O)[C@H](O)[C@H]2COC(C)=O	Impurity	DCTI-C-2915	((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methyl acetate	NA	Molnupiravir acetyl impurity	C11H15N3O7	301.25
1908		Molnupiravir impurity-I	O=C1N=C(NO)C=CN1[C@H](O2)[C@H](O)[C@H](O)[C@H]2COC(CCC)=O	Impurity	DCTI-C-2916	((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methyl butyrate	2770244-32-9	NA	C13H19N3O7	329.31
1909		Mometasone Furoate Anhydrous 8-DM (Impurity L)	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@@]24[C@@H](O4)C[C@@]5(C)[C@@]3([H])C[C@@H](C)[C@]5(O)C(CO)=O)=C1	impurity	DCTI-C-1888	(4aS,4bS,5aS,6aS,7R,8R,9aS,9bS)-7-hydroxy-7-(2-hydroxyacetyl)-4a,6a,8-trimethyl-5a,6,6a,7,8,9,9a,9b,10,11-decahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-2(4aH)-one	NA	Dexamethasone EP Impurity D; Desoximetasone Impurity D; Dexamethasone 9,11-Epoxide; (9β,11β,16α)-9,11-Epoxy-17,21-dihydroxy-16-methyl-pregna-1,4-diene-3,20-dione; 9,11β-Epox y-17,21-dihydroxy-16α-methyl-9β-pregna-1,4-diene-3,20-dione;	C22H28O5	372.46

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1910		Mometasone Furoate Anhydrous DMC (Impurity Q)	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@@]24[C@@H](O4)C[C@@]5(C)[C@@]3([H])C[C@@H](C)[C@]5(O)C(CCl)=O)=C1	impurity	DCTI-C-1889	(4aS,4bS,5aS,6aS,7R,8R,9aS,9bS)-7-(2-chloroacetyl)-7-hydroxy-4a,6a,8-trimethyl-5a,6,6a,7,8,9,9a,9b,10,11-decahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-2(4aH)-one;	NA	Mometasone Furoate EP Impurity Q; (9β,11β,16α)-21-Chloro-9,11-epoxy-17-hydroxy-16-methyl-pregna-1,4-diene-3,20-dione; 17α-Hydroxy-21-chloro-9β,11β-epoxy-16α-methylpregna-1,4-diene-3,20-dione	C22H27ClO4	390.9
1911		Mometasone Furoate Anhydrous DMCF (Impurity D)	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@@]24[C@@H](O4)C[C@@]5(C)[C@@]3([H])C[C@@H](C)[C@]5(OC(C6=CC=CO6)=O)C(CCl)=O)=C1	impurity	DCTI-C-1642	(4aS,4bS,5aS,6aS,7R,8R,9aS,9bS)-7-(2-chloroacetyl)-4a,6a,8-trimethyl-2-oxo-2,4a,5a,6,6a,7,8,9,9a,9b,10,11-dodecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-7-yl furan-2-carboxylate	83881-09-8	Mometasone Furoate Impurity D; 21-Chloro-17α-[(2-furanylcarbonxyl)oxy]-9β,11β-oxido-16α-methylpregna-1,4-diene-3,20-dione; Mometasone EP Impurity D; 9,11-Epoxide mometasone furoate; Mometasone Furoate Epoxy Impurity; (9β,11β,16α)-21-Chloro-9,11-epoxy-17-[(2-furanylcarbonyl)oxy]-16-methylpregna-1,4-diene-	C27H29ClO6	484.97
1912		Mometasone furoate impurity-T	C[C@@]1(C=C2)[C@]([C@@H](O)C[C@]3(C)[C@](C(CCl)=O)(OC(C4=CC=C(Cl)O4)=O)[C@H](C)C[C@]35[H])(Cl)[C@@]5([H])CCC1=CC2=O	impurity	DCTI-C-1263	(8S,9R,10S,11S,13S,14S,16R,17R)-9-chloro-17-(2-chloroacetyl)-11-hydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl 5-chlorofuran-2-carboxylate	NA	NA	C27H29Cl3O6	555.87
1913	**Morpholine Analogue**	Morpholine Analogue	O=C(NCCN)N1CCOC=C1.O=C(C(O)=O)O	Impurity	DCTI-C-124	N-(2-aminoethyl)-2,3-dihydro-4H-1,4-oxazine-4-carboxamide oxalate	NA	NA	C9H15N3O6 (Oxalic acid) C7H13N3O2 (Free base)	261.23 (Oxalic acid) 171.20 (Free base)
1914		Des-chloro-Mosapride	CCOc1cc(N)ccc1C(NCC2OCCN(C2)Cc3ccc(F)cc3)=O	impurity	DCTI-C-2130	4-amino-2-ethoxy-N-((4-(4-fluorobenzyl)morpholin-2-yl)methyl)benzamide	2196138-12-0	Mosapride impurity-1.	C21H26FN3O3	387.46

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1915	Mosapride	3,5-DICHLORO MOSAPRIDE	ClC1=C(N)C(Cl)=C(OCC)C(C(NCC2OCCN(CC3=CC=C(F)C=C3)C2)=O)=C1	impurity	DCTI-C-2131	4-amino-3,5-dichloro-2-ethoxy-N-((4-(4-fluorobenzyl)morpholin-2-yl)methyl)benzamide	NA	Mosapride impuritiy-12.	C21H24Cl2FN3O3	456.34
1916		Mosapride N-Oxide	FC(C=C1)=CC=C1CN(CC2CNC(C3=C(C=C(C(Cl)=C3)N)OCC)=O)(CCO2)=O	Metabolite	DCTI-C-2132	2-((4-amino-5-chloro-2-ethoxybenzamido)methyl)-4-(4-fluorobenzyl)morpholine 4-oxide	1161443-73-7	NA	C21H25ClFN3O4	437.9
1917		Mosapride Citric Amide	ClC1=C(NC(C(CC(O)=O)(O)CC(O)=O)=O)C=C(OCC)C(C(NCC2OCCN(C2)CC3=CC=C(F)C=C3)=O)=C1	Impurity	DCTI-C-2335	3-((2-chloro-5-ethoxy-4-(((4-(4-fluorobenzyl) morpholin-2-yl)methyl)carbamoyl)phenyl)carbamoyl)-3-hydroxypentanedioic acid	1215825-20-9	NA	C27H31ClFN3O9	596.01
1918	Mupirocin	Mupirocin EP impurity E	O=C(CCCCCCCCOC(/C=C(C[C@@H]1OC[C@]([C@@]([C@H]1O)([H])O2)([H])CC(O)[C@H]2[C@H]([C@H](C)O)C)\C)=O)O	Impurity	DCTI-C-2474	9-(((E)-4-((2R,4aS,7S,8S,8aR)-3,8-dihydroxy-2-((2S,3S)-3-hydroxybutan-2-yl)hexahydro-2H,5H-pyrano[4,3-b]pyran-7-yl)-3-methylbut-2-enoyl)oxy)nonanoic acid	71087-96-2	Mupirocin impurity 2	C26H44O9	500.63
1919		Mupirocin EP impurity D	O=C(CCCCCCCCOC(/C=C(C[C@@H]1OC[C@H](C([C@H]1O)O2)C[C@@H]2C(O)[C@@H](C)[C@@H](O)C)\C)=O)O	Impurity	DCTI-C-2475	9-(((E)-4-((2R,3aR,6S,7S)-2-((2S,3S)-1,3-dihydroxy-2-methylbutyl)-7-hydroxyhexahydro-4H-furo[3,2-c]pyran-6-yl)-3-methylbut-2-enoyl)oxy)nonanoic acid	71087-97-3	Mupirocin impurity 1	C26H44O9	500.63
1920	**Moxifloxacin**	N-Nitroso Moxifloxacin	O=C1C(C(O)=O)=CN(C2CC2)C3=C(OC)C(N4C[C@](N(N=O)CCC5)([H])[C@]5([H])C4)=C(F)C=C31	NDSRI	DCTI-C-3154	1-cyclopropyl-6-fluoro-8-methoxy-7-((4aS,7aS)-1-nitrosooctahydro-6H-pyrrolo[3,4-b]pyridin-6-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	NA	NA	C21H23FN4O5	430.44

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1921	**Nadolol**	N-Nitroso-Nadolol	OC1CC2=C(C(OCC(O)CN(C(C)(C)C)N=O)=CC=C2)CC1O	NDSRI	DCTI-C-3768	N-(tert-butyl)-N-(3-((6,7-dihydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)oxy)-2-hydroxypropyl)nitrous amide	134720-06-2	1.5-[3-[(1,1-Dimethylethyl)nitrosoamino]-2-hydroxypropoxy]-1,2,3,4-tetrahydro-2,3-naphthalenediol 2.N-Nitrosonadolol (Mixture of Isomers)	C17H26N2O5	338.4
1922	**Naltrexone**	Naltrexone N-oxide impurity	OC1=C(C2=C(C=C1)C[C@@]3([C@]45O)[H])O[C@]([C@@]52CC[N+]3([O-])CC6CC6)(C(CC4)=O)[H]	Metabolite	DCTI-C-3775	(4R,4aS,7aR,12bS)-3-(cyclopropylmethyl)-4a,9-dihydroxy-7-oxo-2,3,4,4a,5,6,7,7a-octahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline 3-oxide	112269-62-2	Naltrexone N-oxide	C20H23NO5	357.41
1923	**Naltrexol**	6β-Naltrexol impurity	OC1=C(C2=C(C=C1)C[C@@]3([C@]45O)[H])O[C@]([C@@]52CCN3CC6CC6)([C@@H](CC4)O)[H]	Metabolite	DCTI-C-3904	(4R,4aS,7R,7aR,12bS)-3-(cyclopropylmethyl)-1,2,3,4,5,6,7,7a-octahydro-4aH-4,12-methanobenzofuro[3,2-e]isoquinoline-4a,7,9-triol	49625-89-0	NA	C20H25NO4	343.42
1924	**Nateglinide**	Nateglinide Related Compound C	O=C(N[C@@H](C(O)=O)CC1=CC=CC=C1)[C@@H]2CC[C@H](C(C)C)CC2	Impurity	DCTI-C-2337	N-[[Cis-4-(1-methylethyl)cyclohexyl]carbonyl]-D-phenylalanine	105816-06-6	Nateglinide EP Impurity C; Nateglinide Cis Isomer	C19H27NO3	317.43
1925		(R,S,S,R)-Nebivolol	FC1=CC(CC[C@H]([C@H](CNC[C@@H]([C@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-318	(1S,1'S)-2,2'-azanediylbis(1-((R)-6-fluorochroman-2-yl)ethan-1-ol)	NA	R 74716, Nebivolol Isomer-1	C22H25F2NO4	405.44
1926		(S,R,R,S)-Nebivolol	FC1=CC(CC[C@@H]([C@@H](CNC[C@H]([C@@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-319	(1R,1'R)-2,2'-azanediylbis(1-((S)-6-fluorochroman-2-yl)ethan-1-ol)	NA	R 65260, Nebivolol Isomer-2	C22H25F2NO4	405.44
1927		Nebivolol related compound E	FC1=CC=C2C(CCC(C(O)CNCC(O)C3CCC(C=CC=C4)=C4O3)O2)=C1	impurity	DCTI-C-2112	1-(chroman-2-yl)-2-((2-(6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	99200-13-2	Nebivolol USP related compound E; Desfluoro Nebivolol (Mixture of diastereomers); Defluoro Nebivolol (Mixture of diastereomers).	C22H26FNO4	387.45
1928		Nebivolol Nitroso impurity	FC1=CC(CC[C@]([C@H](CN(C[C@@H]([C@@](O2)([H])CCC3=C2C=CC(F)=C3)O)N=O)O)([H])O4)=C4C=C1	NDSRI	DCTI-C-1842	N-((S)-2-((R)-6-fluorochroman-2-yl)-2-hydroxyethyl)-N-((S)-2-((S)-6-fluorochroman-2-yl)-2-hydroxyethyl)nitrous amide-rel-	NA	Nitroso Nebivolol	C22H24F2N2O5	(Free base): 434.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
1929	Nebivolol	(S,R,S,R)-Nebivolol	FC1=CC(CC[C@@H]([C@@H](CNC[C@@H]([C@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-320	(S)-1-((R)-6-fluorochroman-2-yl)-2-(((R)-2-((S)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	NA	R 74829, Nebivolol Isomer-3	C22H25F2NO4	405.44
1930		(S,R,R,R)-Nebivolol	FC1=CC(CC[C@@H]([C@@H](CNC[C@H]([C@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-321	(R)-1-((R)-6-fluorochroman-2-yl)-2-(((R)-2-((S)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	NA	R 67138, Nebivolol Isomer-4, Dexnebivolol, (+)-Nebivolol, d-Nebivolol	C22H25F2NO4	405.44
1931		(R,S,S,S)-Nebivolol	FC1=CC(CC[C@H]([C@H](CNC[C@@H]([C@@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-322	(S)-1-((R)-6-fluorochroman-2-yl)-2-(((S)-2-((S)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	NA	R 67145, Nebivolol Isomer-5, Levonebivolol, (-)-Nebivolol, l-Nebivolol	C22H25F2NO4	405.44
1932		(R,S,R,R)-Nebivolol	FC1=CC(CC[C@H]([C@H](CNC[C@H]([C@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-323	(S)-1-((R)-6-fluorochroman-2-yl)-2-(((R)-2-((R)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	NA	Nebivolol Isomer-6	C22H25F2NO4	405.44
1933		(R,R,R,R)-Nebivolol	FC1=CC(CC[C@H]([C@@H](CNC[C@H]([C@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-324	(1R,1'R)-2,2'-azanediylbis(1-((R)-6-fluorochroman-2-yl)ethan-1-ol)	NA	Nebivolol Isomer-7, R74718	C22H25F2NO4	405.44
1934		(S,R,S,S)-Nebivolol	FC1=CC(CC[C@@H]([C@@H](CNC[C@@H]([C@@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-325	(S)-1-((S)-6-fluorochroman-2-yl)-2-(((R)-2-((S)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	NA	Nebivolol Isomer-8, R65825	C22H25F2NO4	405.44
1935		(R,R,S,S)-Nebivolol	FC1=CC(CC[C@H]([C@@H](CNC[C@@H]([C@@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-326	(R)-1-((R)-6-fluorochroman-2-yl)-2-(((S)-2-((S)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol	NA	Nebivolol Isomer-9, Levonebivolol	C22H25F2NO4	405.44
1936		(S,S,S,S)-Nebivolol	FC1=CC(CC[C@@H]([C@H](CNC[C@@H]([C@@H]2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-327	(1S,1'S)-2,2'-azanediylbis(1-((S)-6-fluorochroman-2-yl)ethan-1-ol)	NA	Nebivolol Isomer-10, R74723, Levonebivolol	C22H25F2NO4	405.44
1937		1-(3,4-dihydro-2H-chromen-2-yl)-2-(methylamino)ethanol	CNCC(O)C1CCC2=CC=CC=C2O1	Impurity	DCTI-C-885	1-(chroman-2-yl)-2-(methylamino)ethan-1-ol	1346562-34-2	Nebivolol Impurity	C12H17NO2	207.27
1938		Rac Nebivolol	FC1=CC(CCC(C(CNCC(C2CCC3=C(O2)C=CC(F)=C3)O)O)O4)=C4C=C1	Impurity	DCTI-C-881	2,2'-azanediylbis(1-(6-fluorochroman-2-yl)ethan-1-ol)	NA	2,2'-iminobis[1-(6-fluoro-3,4-dihydro-2H-chromen-2-yl)ethanol]	C22H25F2NO4	405.43

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1939		(R*)-2-(benzylamino)-1-((S*)-6-fluorochroman-2-yl)ethan-1-ol	FC1=CC(CC[C@]([C@@H](CNCC2=CC=CC=C2)O)([H])O3)=C3C=C1	Impurity	DCTI-C-882	(R*)-2-(benzylamino)-1-((S*)-6-fluorochroman-2-yl)ethan-1-ol -rel-	876514-30-6	(±)-[1S*(R*)]-6-Fluoro-3,4-dihydro-α-[[(phenylmethyl)amino]methyl]-2H-1-benzopyran-2-methanol	C18H20FNO2	301.36
1940		N-benzyl Nebivolol	FC1=CC=C2C(CC[C@H]([C@H](CN(C[C@H](O)[C@@H]3CCC(C=C(F)C=C4)=C4O3)CC5=CC=CC=C5)O)O2)=C1	Impurity	DCTI-C-883	(S)-2-(benzyl((S)-2-((R)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)-1-((S)-6-fluorochroman-2-yl)ethan-1-ol-rel-	876666-07-8	rac N-Benzyl Nebivolol; rel-(αR,α'R,2R,2'S)-α,α'-[[(Phenylmethyl)imino]bis(methylene)]bis[6-fluoro-3,4-dihydro-2H-1-benzopyran-2-methanol]	C29H31F2NO4	495.56
1941		(2S*,2'S*)-Nebivolol Impurity C	[H][C@@]1([C@@]2([H])OC2)CCC3=C(O1)C=CC(F)=C3	Impurity	DCTI-C-886	(S)-6-fluoro-2-((S)-oxiran-2-yl)chromane	129050-26-6	NA	C11H11FO2	194.2
1942		(2S*,2'R*)-Nebivolol Impurity C	[H][C@@]1([C@]2([H])OC2)CCC3=C(O1)C=CC(F)=C3	impurity	DCTI-C-1171	(S)-6-fluoro-2-((R)-oxiran-2-yl)chromane	197706-51-7	(R*,S*)-6-Fluoro-2-(oxiran-2-yl)chroman	C11H11FO2	194.21
1943		(R*)-2-(benzylamino)-1-((R*)-6-fluorochroman-2-yl)ethan-1-ol	O[C@@H]([C@H]1CCC2=C(O1)C=CC(F)=C2)CNCC3=CC=CC=C3	impurity	DCTI-C-925	(R*)-2-(benzylamino)-1-((R*)-6-fluorochroman-2-yl)ethan-1-ol -rel-	897673-07-3	NA	C18H20FNO2	301.36
1944		Nebivolol EP impurity B	FC1=CC(CC[C@]([C@@](O)([H])CNC[C@@]([H])(O)[C@]2([H])CCC3=C(O2)C=CC(F)=C3)([H])O4)=C4C=C1.FC5=CC(CC[C@]([C@](O)([H])CNC[C@]([H])(O)[C@@]6([H])CCC7=C(O6)C=CC(F)=C7)([H])O8)=C8C=C5	Impurity	DCTI-C-2340	(1R,1'R)-2,2'-azanediylbis(1-((S)-6-fluorochroman-2-yl)ethan-1-ol), rel-	NA	Nebivolol SRRS and RSSR Isomers	C22H25F2NO4	405.44
1945		Nebivolol EP Impurity D	FC1=CC2=C(C=C1)O[C@]([C@](O)([H])CNC[C@@]([H])(O)[C@]3([H])OC(C=CC(F)=C4)=C4CC3)([H])CC2.FC5=CC6=C(C=C5)O[C@@]([C@@](O)([H])CNC[C@]([H])(O)[C@@]7([H])OC(C=CC(F)=C8)=C8CC7)([H])CC6	Impurity	DCTI-C-2341	(S)-1-((R)-6-fluorochroman-2-yl)-2-(((R)-2-((R)-6-fluorochroman-2-yl)-2-hydroxyethyl)amino)ethan-1-ol, rel-	119365-22-9	Nebivolol RSRR and SRSS Isomers	C22H25F2NO4	405.44

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1946	Nelarabine	Nelarabine Stage-1 Impurity	ClC(C=C1)=CC(Cl)=C1COC[C@@H](O[C@H]2N3C=NC(C(OC)=N4)=C3N=C4N)[C@@H](OCC5=CC=C(Cl)C=C5Cl)[C@@H]2OCC6=CC=C(Cl)C=C6Cl	Impurity	DCTI-C-1498	9-((2R,3S,4R,5R)-3,4-bis((2,4-dichlorobenzyl)oxy)-5-(((2,4-dichlorobenzyl)oxy)methyl)tetrahydrofuran-2-yl)-6-methoxy-9H-purin-2-amine	1173825-84-7	Nelarabine Impurity 1	C32H27Cl6N5O5	774.29
1947		Nelarabine impurity 17	O/C=N/C1=C(OC)N=C(N)N=C1N.Cl	impurity	DCTI-C-2134	(E)-N-(2,4-diamino-6-methoxypyrimidin-5-yl)formimidic acid hydrochloride	NA	NA	C6H9N5O2 (free base) C6H10ClN5O2 (HCl salt)	183.17(free base) 219.63 (HCl salt)
1948		9-(Beta-d-arabino furanosyl) Guanine	O=C1NC(N)=NC2=C1N=CN2[C@@H]3O[C@H](CO)[C@H]([C@@H]3O)O	Metabolite	DCTI-C-1699	2-amino-9-((2R,3S,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-1,9-dihydro-6H-purin-6-one	NA	Ara-G, 9-β -D-arabinofuranosyl) guanine, Guanine 9-β-D-Arabinofuranoside	C10H13N5O5	283.24
1949		2,6-Diaminopurine arabinoside	NC1=NC(N)=NC2=C1N=CN2[C@@H]3O[C@H](CO)[C@H]([C@@H]3O)O	impurity	DCTI-C-1700	(2R,3S,4S,5R)-2-(2,6-diamino-9H-purin-9-yl)-5-(hydroxymethyl)tetrahydrofuran-3,4-diol	NA	9-(beta-D-Arabinofuranosyl)-2,6-diamino-purine	C10H14N6O4	282.26
1950		Nelarabine Alpha isomer impurity	COC1=NC(N)=NC2=C1N=CN2[C@H]3O[C@H](CO)[C@H]([C@@H]3O)O	impurity	DCTI-C-1296	(2S,3S,4S,5R)-2-(2-amino-6-methoxy-9H-purin-9-yl)-5-(hydroxymethyl)tetrahydrofuran-3,4-diol	1305196-84-2	NA	C11H15N5O5	297.27

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1951		Methyl guanine impurity	NC1=NC(OC)=C2N=CNC2=N1	Impurity	DCTI-C-2737	6-methoxy-9H-purin-2-amine	NA	Nelarabine diamine impurity	C6H7N5O	165.16
1952	Netarsudil	Netarsudil Amino acid Impurity	OC(C(C1=CC=C(C=C1)COC(C2=C(C=C(C=C2)C)C)=O)CN)=O	impurity	DCTI-C-2087	3-amino-2-(4-(((2,4-dimethylbenzoyl)oxy)methyl)phenyl)propanoic acid	NA	NA	C19H21NO4	327.38
1953		Netarsudil BOC Aminoisoquinoline Impurity	O=C(C1=C(C=C(C=C1)C)C)OCC(C=C2)=CC=C2[C@@H](CNC(OC(C)(C)C)=O)C(NC3=CC4=C(C=NC=C4)C=C3)=O	impurity	DCTI-C-2088	(S)-4-(3-((tert-Butoxycarbonyl)amino)-1-(isoquinolin-6-ylamino)-1-oxopropan-2-yl)benz yl 2,4-dimethylbenzoate	1253955-19-9	Boc-Netarsudil	C33H35N3O5	553.66
1954		Methyl 5-acetylsalicylate	CC(C1=CC=C(O)C(C(OC)=O)=C1)=O	impurity	DCTI-C-2089	methyl 5-acetyl-2-hydroxybenzoate	16475-90-4	5-Acetyl-2-hydroxy-benzoic Acid Methyl Ester; Methyl 2-Hydroxy-5-acetylbenzoate; Methyl 3-Acetyl-6-hydroxybenzoate; Methyl 5-Acetyl-2-hydroxybenzoate; Methyl 5-Acetylsalicylate; NSC 67867.	C10H10O4	194.19
1955		Netarsudil (R)-Enantiomer hydrochloride	NC[C@@H](C1=CC=C(C=C1)COC(C2=C(C=C(C=C2)C)C)=O)C(NC3=CC4=C(C=NC=C4)C=C3)=O.Cl	Impurity	DCTI-C-1727	(R)-4-(3-amino-1-(isoquinolin-6-ylamino)-1-oxopropan-2-yl)benzyl 2,4-dimethylbenzoate hydrochloride	NA	[4-[(1R)-1-(Aminomethyl)-2-(6-isoquinolinylamino)-2-oxoethyl]phenyl]methyl 2,4-dimethyl benzoate; Benzoic acid, 2,4-dimethyl-,[4-[(1R)-1-(aminomethyl)-2-(6-isoquinolinylamino)-2-oxoethyl]phe nyl]methyl ester; Netarsudil dimesylate (R) enantiomer; Netarsudil Impurity 6;	C28H28ClN3O3	490
1956		Nicardipine Impurity (2-MMNOC)	CC1=CC(CC(C2=CC=CC([N+]([O-])=O)=C2)C1C(OC)=O)=O	impurity	DCTI-C-1107	methyl 3-methyl-3'-nitro-5-oxo-1,2,5,6-tetrahydro-[1,1'-biphenyl]-2-carboxylate	87625-92-1	NA	C15H15NO5	289.29

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1957	Nicardipine	Nicardipine N-Oxide Impurity	COC(C1=C(NC(C)=C(C(OCC[N+](CC2=CC=CC=C2)([O-])C)=O)C1C3=CC([N+]([O-])=O)=CC=C3)C)=O	impurity	DCTI-C-2133	N-benzyl-2-((5-(methoxycarbonyl)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3-carbonyl)oxy)-N-methylethan-1-amine oxide	2724510-66-9	NA	C26H29N3O7	495.53
1958		R-Nicardipine	O=C(C1=C(C)NC(C)=C([C@H]1c2cc([N+]([O-])=O)ccc2)C(OC)=O)OCCN(C)Cc3ccccc3	impurity	DCTI-C-2262	3-(2-(benzyl(methyl)amino)ethyl) 5-methyl (R)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	(+)-Nicardipine, R-Nicardipine R isomer	C26H29N3O6	479.53
1959		S-Nicardipine	O=C(C1=C(C)NC(C)=C([C@@H]1c2cc([N+]([O-])=O)ccc2)C(OC)=O)OCCN(C)Cc3ccccc3	impurity	DCTI-C-2263	3-(2-(benzyl(methyl)amino)ethyl) 5-methyl (S)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	(-)-Nicardipine, S-Nicardipine R isomer	C26H29N3O6	479.53
1960		methyl 2-acetyl-3-(3-nitrophenyl)-5-oxohexanoate	O=C(C)CC(C(C(C)=O)C(OC)=O)C1=CC=CC([N+]([O-])=O)=C1	impurity	DCTI-C-2264	methyl 2-acetyl-3-(3-nitrophenyl)-5-oxohexanoate	NA	Nicardipine impurity RRT 0.73; Nicardipine impurity 5; Nicardipine Imp.	C15H17NO6	307.3
1961		Nicardipine Impurity (4-MMNOC)-Mixture of Isomers	CC(CC(C1=CC=CC([N+]([O-])=O)=C1)C2C(OC)=O)=CC2=O	impurity	DCTI-C-1108	methyl 5-methyl-3'-nitro-3-oxo-1,2,3,6-tetrahydro-[1,1'-biphenyl]-2-carboxylate	2469735-68-8	NA	C15H15NO5	289.29
1962		N-Nitroso-N-Desmethyl Nicardipine Impurity (Mixture of isomers)	O=C(OC)C1=C(C)NC(C)=C(C(OCCN(N=O)CC2=CC=CC=C2)=O)C1C3=CC=CC([N+]([O-])=O)=C3	NDSRI	DCTI-C-2585	3-(2-(benzyl(nitroso)amino)ethyl) 5-methyl 2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydro pyridine-3,5-dicarboxylate	NA	Nicardipine Nitroso-benzylamine Derivative	C25H26N4O7	494.5

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1963		3-methyl 5-(2-(methyl(nitroso)amino)ethyl) 2,6-dimethyl-4- (3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate (mixture of isomers)	O=C(OC)C1=C(C)NC(C)=C(C(OCCN(C)N=O)=O)C1C2=CC=CC([N+]([O-])=O)=C2	NDSRI	DCTI-C-2343	3-methyl 5-(2-(methyl(nitroso)amino)ethyl) 2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	NA	N-Nitroso N-Desbenzyl Nicardipine Impurity; Nicardipine N-Desbenzyl Nitroso Impurity; Nicardipine Nitroso Methylamino Derivative	C19H22N4O7	418.41
1964		Nicardipine imp RRT 0.95	COC(C(C(C)=CC(C1C(OC)=O)=O)C1C2=CC([N+]([O-])=O)=CC=C2)=O	Impurity	DCTI-C-2342	dimethyl 5-methyl-3'-nitro-3-oxo-1,2,3,6-tetrahydro-[1,1'-biphenyl]-2,6-dicarboxylate	142592-15-2	NA	C17H17NO7	347.32
1965		dimethyl 2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	O=C(OC)C1=C(C)NC(C)=C(C(OC)=O)C1C2=CC=CC([N+]([O-])=O)=C2	Impurity	DCTI-C-2344	dimethyl 2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate	21881-77-6	Nicardipine USP Related Compound C; Nicardipine EP Impurity C; Nitrendipine EP Impurity B; m-Nifedipine	C17H18N2O6	346.34
1966		5-(methoxycarbonyl)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3-carboxylic acid	O=C(C1=C(C)NC(C)=C(C(O)=O)C1C2=CC=CC([N+]([O-])=O)=C2)OC	Impurity	DCTI-C-2345	5-(methoxycarbonyl)-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3-carboxylic acid	74936-72-4	NA	C16H16N2O6	332.31
1967		N-methyl-N-nitrosophenethylamine	O=NN(C)CCC1=CC=CC=C1	NDSRI	DCTI-C-2360	N-methyl-N-phenethylnitrous amide	13256-11-6	NA	C9H12N2O	164.21
1968		1-nitroso-1,2,3,6-tetrahydropyridine	O=NN1CC=CCC1	Impurity	DCTI-C-2489	1-nitroso-1,2,3,6-tetrahydropyridine	55556-92-8	1,2,3,6-Tetrahydro-1-nitrosopyridine; N-Nitroso-1,2,3,6-Tetrahydropyridine	C5H8N2O	112.13

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1969	**Nitroso compounds**	Methyl 3-methyl-2,6-dinitrobenzoate	CC1=CC=C([N+]([O-])=O)C(C(OC)=O)=C1[N+]([O-])=O	Impurity	DCTI-C-2874	Methyl 3-methyl-2,6-dinitrobenzoate	83807-18-5	3-methyl-2,6-dinitrobenzoic acid methyl ester	C9H8N2O6	240.17
1970		Methyl 3-methyl-2,4-dinitrobenzoate	CC1=C([N+]([O-])=O)C=CC(C(OC)=O)=C1[N+]([O-])=O	Impurity	DCTI-C-2901	methyl 3-methyl-2,4-dinitrobenzoate	91211-03-9	Benzoic acid, 3-methyl-2,4-dinitro-, methyl ester	C9H8N2O6	240.17
1971		N-NITROSO ETHYLENE DIAMINO MONOACETIC ACID	O=C(O)CN(CCN)N=O.O=C(O)C(F)(F)F	Impurity	DCTI-C-2754	N-(2-aminoethyl)-N-nitrosoglycine--2,2,2-trifluoroacetic acid	na	na	C6H10F3N3O5	261.16
1972	**nortriptyline**	N-Nitrosonortriptyline	CN(N=O)CC/C=C1C2=CC=CC=C2CCC3=CC=CC=C\13	NDSRI	DCTI-C-2365	N-(3-(10,11-dihydro-5H-dibenzo[a,d][7]annulen-5-ylidene)propyl)-N-methylnitrous amide	55855-42-0	NA	C19H20N2O	292.38
1973	**Nordoxepin**	N-Nitroso Nordoxepin	CN(N=O)CCC=C1C2=C(C=CC=C2)COC3=C1C=CC=C3	NDSRI	DCTI-C-3911	N-(3-(dibenzo[b,e]oxepin-11(6H)-ylidene)propyl)-N-methylnitrous amide	NA	N-Nitroso Desmethyl Doxepin:N-Nitroso Nordoxepin (Mixture)	C18H18N2O2	294.35
1974	**Nicorandil**	Oxazoalyl pyridine	C1(C2=NCCO2)=CC=CN=C1	Impurity	DCTI-C-029	2-(pyridin-3-yl)-4,5-dihydrooxazole	40055-37-6	NA	C8H8N2O	148.17
1975		2-Aminoethyl nicotinate HCl	O=C(OCCN)C1=CC=CN=C1.Cl	Impurity	DCTI-C-030	2-aminoethyl nicotinate hydrochloride	46053-56-9	NA	C8H11ClN2O2 (HCl Salt) C8H10N2O2 (Free base)	202.64 (HCl Salt) 166.18 (Free base)

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1976	**Niflumic Acid**	Niflumic Acid Methyl Ester	O=C(OC)C(C=CC=N1)=C1NC2=CC=CC(C(F)(F)F)=C2	impurity	DCTI-C-1948	Methyl 2-((3-(trifluoromethyl)phenyl)amino)nicotinate	59361-45-4	Niflumic Acid EP Impurity F.	C14H11F3N2O2	296.25
1977		Nilotinib Regio isomer (Nilotinib impurity-9)	FC(F)(F)C1=CC(NC(C2=CC(NC3=NC(C4=CC=CN=C4)=CC=N3)=C(C)C=C2)=O)=CC(N5C=NC=C5C)=C1	Impurity	DCTI-C-253	4-methyl-N-(3-(5-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamide	641571-15-5	Nilotinib impurity-H	C28H22F3N7O	529.53
1978		2- Methyl Isomer Impurity of Nilotinib	CC1=NC=CN1C2=CC(C(F)(F)F)=CC(NC(C(C=C3)=CC(NC4=NC(C5=CC=CN=C5)=CC=N4)=C3C)=O)=C2	impurity	DCTI-C-2265	4-methyl-N-(3-(2-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamide	NA	Nilotinib impurity 5	C28H22F3N7O	529.53
1979		Nilotinib impurity D CRS	O=C(O)C1=CC=C(C)C(NC2=NC=CC(C3=CC=CN=C3)=N2)=C1	impurity	DCTI-C-1908	4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzoic acid.	NA	Nilotinib Impurity 20	C17H14N4O2	306.33
1980		Nilotinib impurity G CRS	O=C(OC)C1=CC=C(C)C(NC2=NC=CC(C3=CC=CN=C3)=N2)=C1	impurity	DCTI-C-1909	methyl 4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzoate.	NA	NA	C18H16N4O2	320.35
1981		3-(4-methyl-1H-imidazol-1yl)-5-nitrobenzotrifluoride	FC(F)(F)C1=CC([N+]([O-])=O)=CC(N2C=C(C)N=C2)=C1	Impurity	DCTI-C-495	4-methyl-1-(3-nitro-5-(trifluoromethyl)phenyl)-1H-imidazole	NA	NA	C11H8F3N3O2	271.2

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1982	Nilotinib	2-Methyl NTB Amine	FC(F)(F)C1=CC(N)=CC(N2C=C(C)N=C2)=C1	Impurity	DCTI-C-511	3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	641571-11-1	NA	C11H10F3N3	241.22
1983		NTB Amine Regio Isomer	NC1=CC(C(F)(F)F)=CC(N2C(C)=CN=C2)=C1	Impurity	DCTI-C-539	3-(5-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	641571-16-6	Nilotinib Impurity 5	C11H10F3N3	241.22
1984		4-Methyl nitro NTB methanesulfonate	FC(C1=CC([N+]([O-])=O)=CC(N2C=C(C)N=C2)=C1)(F)F.CS(=O)(O)=O	Impurity	DCTI-C-540	4-methyl-1-(3-nitro-5-(trifluoromethyl)phenyl)-1H-imidazole methanesulfonate	NA	NA	C12H12F3N3O5S	367.3
1985		N-benzyl-3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	CC1=CN(C=N1)C2=CC(NCC3=CC=CC=C3)=CC(C(F)(F)F)=C2	Impurity	DCTI-C-1333	N-benzyl-3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	2140909-90-4	Nilotinib N Benzyl Impurity	C18H16F3N3	331.34
1986		2,4-Dimethyl NTB Amine	NC1=CC(N2C=C(C)N=C2C)=CC(C(F)(F)F)=C1	Impurity	DCTI-C-541	3-(2,4-dimethyl-1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	2119583-28-5	Nilotinib Impurity	C12H12F3N3	255.24
1987		Nilotinib N-Oxide	FC(F)(F)C1=CC(NC(C2=CC(NC3=NC(C4=C[N+]([O-])=CC=C4)=CC=N3)=C(C)C=C2)=O)=CC(N5C=NC(C)=C5)=C1	Impurity	DCTI-C-626	3-(2-((2-methyl-5-((3-(5-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)carbamoyl)phenyl)amino)pyrimidin-4-yl)pyridine 1-oxide	1246817-85-5	NA	C28H22F3N7O2	545.53

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1988		4-Ethyl Derivative	NC1=CC(C(F)(F)F)=CC(N2C=C(CC)N=C2)=C1	Impurity	DCTI-C-3360	3-(4-ethyl-1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	2119583-27-4	Nilotinib impurity 13	C12H12F3N3	255.24
1989		Imidazole Derivative	NC1=CC(C(F)(F)F)=CC(N2C=CN=C2)=C1	Impurity	DCTI-C-3365	3-(1H-imidazol-1-yl)-5-(trifluoromethyl)aniline	943320-48-7	Nilotinib Impurity 2	C10H8F3N3	227.19
1990		Nilotinib Impurity E. Formate	CC1=C(NC2=NC=CC(C3=CN=CC=C3)=N2)C=C(C(NC4=CC(N5C=C(C)N=C5)=CC(C(F)(F)F)=C4)=O)C=C1NC6=NC(C7=CC=CN=C7)=CC=N6.[H]C(O)=O	Impurity	DCTI-C-3465	4-methyl-N-(3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)-3,5-bis((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamide	NA	NA	C37H28F3N11O (Free Base); C38H30F3N11O3 (Formate salt)	699.7 (Free base); 745.73 (Formate salt)
1991		Nilotinib Related Impurity	CC1=C(NC2=NC=CC(C3=CN=CC=C3)=N2)C=C(C(O)=O)C=C1NC4=NC(C5=CC=CN=C5)=CC=N4	Impurity	DCTI-C-3466	4-methyl-3,5-bis((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzoic acid	NA	NA	C26H20N8O2	476.5
1992		Nilotinib Impurity E CRS	FC(F)(F)C1=CC(NC(C2=CC(NC3=NC(C4=CC=CN=C4)=CC=N3)=C(C)C=C2)=O)=CC(N5C=NC=C5)=C1	impurity	DCTI-C-2957	N-(3-(1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)-4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamide	2119583-26-3	Nilotinib Desmethylimidazole impurity	C27H20F3N7O	515.5
1993		Nilotinib Impurity F CRS	FC(F)(F)C1=CC(NC(C2=CC(NC3=NC(C4=CC=CN=C4)=CC=N3)=C(C)C=C2)=O)=CC(N5C=NC(CC)=C5)=C1	impurity	DCTI-C-2958	N-(3-(4-ethyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)-4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamide	2119583-24-1	Nilotinib Ethylimidazole analog, 4-Desmethyl-4-ethylimidazolyl Nilotinib, Nilotinib Impurity 11	C29H24F3N7O	543.55
1994		Nilotinib P36.5	O=C(NC1=CC(C(F)(F)F)=CC(N2C=NC(C(O)=O)=C2)=C1)C3=CC=C(C)C(NC4=NC=CC(C5=CC=CN=C5)=N4)=C3	Metabolites	DCTI-C-3637	1-(3-(4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamido)-5-(trifluoromethyl)phenyl)-1H-imidazole-4-carboxylic acid.	1807607-72-2	Nilotinib Metabolite 3	C28H20F3N7O3	559.51
1995		Nilotinib Related Impurity	O=C(NC1=CC(C(F)(F)F)=CC(N2C=NC(C(OCC)=O)=C2)=C1)C3=CC=C(C)C(NC4=NC=CC(C5=CC=CN=C5)=N4)=C3	Impurity	DCTI-C-3636	ethyl 1-(3-(4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamido)-5-(trifluoromethyl)phenyl)-1H-imidazole-4-carboxylate	NA	NA	C30H24F3N7O3	587.56
1996		Nilotinib P41.6	O=C(NC1=CC(C(F)(F)F)=CC(N2C=NC(CO)=C2)=C1)C3=CC=C(C)C(NC4=NC=CC(C5=CC=CN=C5)=N4)=C3	Metabolites	DCTI-C-3640	N-(3-(4-(hydroxymethyl)-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl)-4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)benzamide	1807606-80-9	Nilotinib Metabolite 2	C28H22F3N7O2	545.53

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1997	Niraparib	methyl 3-[(E)-(2-(dimethylamino)ethenyl]-2-nitrobenzoate	O=C(OC)C1=CC=CC(/C=C/N(C)C)=C1[N+]([O-])=O	Impurity	DCTI-C-3357	methyl (E)-3-(2-(dimethylamino)vinyl)-2-nitrobenzoate	93247-79-1	NA	C12H14N2O4	250.25
1998		Niraparib Enantiomer	O=C(N)C1=CC=CC2=CN(C3=CC=C([C@H]4CCCNC4)C=C3)N=C21	Impurity	DCTI-C-3470	(R)-2-(4-(piperidin-3-yl)phenyl)-2H-indazole-7-carboxamide	1038915-58-0	MK-4827 (R-enantiomer), Niraparib (R-enantiomer)	C19H20N4O	320.4
1999		tert-butyl (R)-3-(4-aminophenyl)Piperidine-1-Carboxylate	O=C(OC(C)(C)C)N1C[C@@H](C2=CC=C(N)C=C2)CCC1	Impurity	DCTI-C-3564	tert-butyl (R)-3-(4-aminophenyl)piperidine-1-carboxylate	1263284-59-8	R)-tert-butyl 3-(4-aminophenyl)piperidine-1-carboxylate	C16H24N2O2	276.38
2000		(S)-tert-Butyl 3-(4-aminophenyl)Piperidine-1-Carboxylate	O=C(OC(C)(C)C)N1C[C@H](C2=CC=C(N)C=C2)CCC1	Impurity	DCTI-C-3566	tert-butyl (S)-3-(4-aminophenyl)piperidine-1-carboxylate	1171197-20-8	NA	C16H24N2O2	276.38
2001		Nintedanib N-Methyl impurity. TFA salt	CNC1=CC=C(N/C(C2=CC=CC=C2)=C3C(NC4=CC(C(OC)=O)=CC=C\34)=O)C=C1.O=CC(F)(F)F	impurity	DCTI-C-1884	methyl (Z)-3-(((4-(methylamino)phenyl)amino)(phenyl)methylene)-2-oxoindoline-6-carboxylate .TFA salt	NA	Nintedanib Impurity D.	(free base): C24H21N3O3 (Salt): C26H22F3N3O5	(Free base): 399.45 (Salt): 513.47
2002		Piperazine Dimer impurity of Nintedanib CRS	O=C(N(C1=CC=C(N/C(C2=CC=CC=C2)=C3C(NC4=CC(C(OC)=O)=CC=C\34)=O)C=C1)C)CN5CCN(CC(N(C)C(C=C6)=CC=C6N/C(C7=CC=CC=C7)=C8C9=CC=C(C(OC)=O)C=C9NC/8=O)=O)CC5	impurity	DCTI-C-1945	Dimethyl3,3'-(((((2,2'-(piperazine-1,4diyl)bis(acetyl))bis(methylazanediyl))bis(4,1-phenylene))bis(azanediyl))bis(phenylmethaneylylidene))(3Z,3'Z)-bis(2-oxoindoline-6-carboxylate).	2410284-90-9	NA	C56H52N8O8	965.08

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2003		Piperazine Dimer acetyl Impurity of Nintedanib CRS	O=C(N(C1=CC=C(N/C(C2=CC=CC=C2)=C3C(N(C(C)=O)C4=CC(C(OC)=O)=CC=C\34)=O)C=C1)CCN5CCN(CC(N(C)C(C=C6)=CC=C6N/C(C7=CC=CC=C7)=C8C9=CC=C(C(OC)=O)C=C9N(C(C)=O)C/8=O)=O)CC5	impurity	DCTI-C-1944	Dimethyl 3,3'-(((((2,2'-(piperazine-1,4diyl)bis (acetyl)) bis (methylazanediyl)) bis(4,1-phenylene))bis(azanediyl))bis(phenylmethaneylylidene))(3Z,3'Z)-bis(1-acetyl-2-oxoindoline-6-carboxylate)	NA	NA	C60H56N8O10	1049.15
2004		Methyl Impurity of Nintedanib CRS	C[N+]1(C)CCN(CC(N(C2=CC=C(N/C(C3=CC=CC=C3)=C4C(NC5=CC(C(OC)=O)=CC=C\45)=O)C=C2)C)=O)CC1	impurity	DCTI-C-1942	(Z)-4-(2-((4-(((6-(methoxycarbonyl)-2-oxoindolin-3-ylidene)(phenyl) methyl)amino)phenyl)(methyl)amino)-2-oxoethyl)-1,1-dimethylpiperazin-1-ium	1799894-54-4	NA	C32H36N5O4	554.67
2005		N-Oxide Impurity for Nintedanib Esylate CRS	[O-] [N+]1(CC[N+](CC(N(C2=CC=C(N/C(C3=CC=CC=C3)=C4C(NC5=CC(C(O)=O)=CC=C\45)=O)C=C2)C)=O)([O-])CC1)C	impurity	DCTI-C-1947	(Z)-1-(2-((4-(((6-carboxy-2-oxoindolin-3-ylidene)(phenyl)methyl)amino)phenyl)(methyl)amino)-2-oxoethyl)-4-methylpiperazine 1,4-dioxide	NA	NA	C30H31N5O6	557.61
2006		Acetyl impurity of Nintedanib CRS	CC(N(C1=CC=C(N/C(C2=CC=CC=C2)=C3C(NC4=CC(C(OC)=O)=CC=C\34)=O)C=C1)C)=O	impurity	DCTI-C-1941	methyl(Z)-3-(((4-(N-methylacetamido)phenyl)amino)(phenyl) methylene)-2-oxoindo line-6-carboxylate.	1139458-48-2	Nintedanib Acetyl Impurity	C26H23N3O4	441.49

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2007	**Nintedanib**	Nintedanib N-oxide impurity I	[O-]][N+]1(CCN(CC(N(C2=CC=C(N/C(C3=CC=CC=C3)=C4C(NC5=CC(C(OC)=O)=CC=C\45)=O)C=C2)C)=O)CC1)C	Metabolite	DCTI-C-1946	(Z)-4-(2-((4-(((6-(methoxycarbonyl)-2-oxoindolin-3-ylidene)(phenyl)methyl)amino)phenyl)(methyl)amino)-2-oxoethyl)-1-methylpiperazine 1-oxide.	NA	NA	C31H33N5O5	555.64
2008		Nintedanib acid impurity	CN1CCN(CC(N(C2=CC=C(N/C(C3=CC=CC=C3)=C4C(NC5=CC(C(O)=O)=CC=C\45)=O)C=C2)C)=O)CC1	Metabolite	DCTI-C-1910	Z)-3-(((4-(N-methyl-2-(4-methylpiperazin-1-yl)acetamido)phenyl)amino)(phenyl)methylene)-2-oxoindoline-6-carboxylic acid	NA	BIBF 1202, Nintedanib Impurity 6.	C30H31N5O4	525.61
2009		N-Acetyl Nintedanib Impurity	CN1CCN(CC(N(C2=CC=C(N/C(C3=CC=CC=C3)=C4C(N(C(C)=O)C5=CC(C(OC)=O)=CC=C\45)=O)C=C2)C)=O)CC1	impurity	DCTI-C-1911	methyl(Z)-1-acetyl-3-(((4-(N-methyl-2-(4-methylpiperazin-1-yl)acetamido)phenyl)amino)(phenyl)methylene)-2-oxoindoline-6-carboxylate	NA	NA	C33H35N5O5	581.67
2010		Nintedanib N-oxide Impurity H	C[N+]1([O-])CC[N+](CC(N(C2=CC=C(N/C(C3=CC=CC=C3)=C4C(NC5=CC(C(OC)=O)=CC=C\45)=O)C=C2)C)=O)([O-])CC1.CCS(=O)(O)=O	impurity	DCTI-C-1914	(Z)-1-(2-((4-(((6-(methoxycarbonyl)-2-oxoindolin-3-ylidene)(phenyl)methyl)amino)phenyl)(methyl)amino)-2-oxoethyl)-4-methylpiperazine 1,4-dioxide ethanesulfonate	NA	NA	C31H33N5O6 (Free base) C33H39N5O9S (Salt)	571.63 (Free base) 681.76 (Salt)

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2011		ETHYL (Z)-3-(((4-(N-METHYL-2-(4-METHYLPIPERAZINE-1-yl)ACETAMIDO)PHENYL)AMINO)(PHENYL)METHYLENE)-2-OXOINDOLENE-6-CARBOXYLATE	O=C(C1=CC(NC/2=O)=C(C=C1)C2=C(NC3=CC=C(N(C)C(CN4CCN(C)CC4)=O)C=C3)/C5=CC=CC=C5)OCC	Impurity	DCTI-C-543	ethyl (Z)-3-(((4-(N-methyl-2-(4-methylpiperazin-1-yl)acetamido)phenyl)amino)(phenyl)methylene)-2-oxoindoline-6-carboxylate	2295911-98-5	Nintedanib Impurity 24	C32H35N5O4	553.66
2012		(Z)-Methyl-3-(1-methoxypropylidene)-2-oxo-1-propionylindoline-6-carboxylate	O=C(OC)C1=CC=C2C(N(C(CC)=O)C(/C2=C(OC)/CC)=O)=C1	IMPURITY	DCTI-C-2710	methyl (Z)-3-(1-methoxypropylidene)-2-oxo-1-propionylindoline-6-carboxylate	NA	Nintedanib impurity F	C17H19NO5	317.34
2013		(Z)-methyl 3-(((4-(N-methyl-2-(4-methylpiperazin-1-yl)acetamido)phenyl amino)(phenyl)methylene)-2-oxoindoline-6-carboxylate	O=C(C1=CC(NC/2=O)=C(C=C1)C2=C(N(C)C3=CC=C(N(C)C(CN4CCN(C)CC4)=O)C=C3)/C5=CC=CC=C5)OC	IMPURITY	DCTI-C-2742	(Z)-methyl 3-(((4-(N--methyl-2-(4-methylpiperazin-1-yl)acetamido)phenyl amino)(phenyl)methylene)-2-oxoindoline-6-carboxylate	2734410-06-9	Nintedanib Methyl Impurity	C32H35N5O4	553.66
2014		(Z)-3-(1-hydroxypropylidene)-2-oxo-1-Propionlindoline-6-carboxylate	OC(C1=CC=C2C(N(C(CC)=O)C(/C2=C(O)/CC)=O)=C1)=O	IMPURITY	DCTI-C-2750	(Z)-3-(1-hydroxypropylidene)-2-oxo-1-propionylindoline-6-carboxylic acid	NA	Nintedanib Impurity-E	C15H15NO5	289.29
2015		Nirmatrelvir Intermediate Azabicyclo Amide	CC1(C)[C@@]2([H])[C@@]([H])1CN[C@@H]2C(N)=O.Cl	impurity	DCTI-C-2233	(1R,2S,5S)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamide hydrochloride	NA	NA	C8H14N2O (free base) C8H15ClN2O (HCl salt)	154.21 (free base) 190.67 (HCl salt)
2016		Nirmatrelvir Intermediate Azabicyclo Isopropyl Ester	CC1(C)[C@@]2([H])[C@@]([H])1CN[C@@H]2C(OC(C)C)=O.Cl	impurity	DCTI-C-2234	isopropyl (1R,2S,5S)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxylate hydrochloride	NA	NA	C11H19NO2 (free base)	197.28 (free base)

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2017		Nirmatrelvir Isopropyl Ester	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@H](C(OC(C)C)=O)C[C@@H]3CCNC3=O)=O)N(C([C@H](C(C)(C)C)NC(C(F)(F)F)=O)=O)C2	impurity	DCTI-C-2235	isopropyl (S)-2-((1R,2S,5S)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamido)-3-((S)-2-oxopyrrolidin-3-yl)propanoate	NA	NA	C26H39F3N4O6	560.62
2018		Nirmatrelvir Methyl Ester	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@H](C(OC)=O)C[C@@H]3CCNC3=O)=O)N(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)C2	impurity	DCTI-C-2236	methyl (S)-2-((1R,2S,5S)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamido)-3-((S)-2-oxopyrrolidin-3-yl)propanoate.	NA	NA	C24H35F3N4O6	532.56
2019		(R)-2-amino-3-((R)-2-oxopyrrolidin-3-yl)propanamide hydrochloride	O=C1NCC[C@@H]1C[C@@H](N)C(N)=O.Cl	Impurity	DCTI-C-2673	(R)-2-amino-3-((R)-2-oxopyrrolidin-3-yl)propanamide hydrochloride	NA	Nirmatrelvir INT Enantiomer	C7H14ClN3O2 (HCl salt); C7H13N3O2 (Free Base)	207.66 (HCl salt); 171.20 (Free Base)
2020		Nirmatrelvir INT Diastereomer -1	O=C1NCCC1CC(N)C(N)=O.Cl	Impurity	DCTI-C-2674	(S)-2-amino-3-((R)-2-oxopyrrolidin-3-yl)propanamide hydrochloride (or) (R)-2-amino-3-((S)-2-oxopyrrolidin-3-yl)propanamide hydrochloride	NA	NA	C7H14ClN3O2 (HCl salt) C7H13N3O2 (Free Base)	207.66 (HCl salt) 171.20 (Free Base)

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2021	Nirmatrelvir	Nirmatrelvir INT Diastereomer -2	O=C1NCCC1CC(N)C(N)=O.Cl	Impurity	DCTI-C-2675	(R)-2-amino-3-((S)-2-oxopyrrolidin-3-yl)propanamide hydrochloride (or) (S)-2-amino-3-((R)-2-oxopyrrolidin-3-yl)propanamide hydrochloride	NA	NA	C7H14ClN3O2 (HCl salt) C7H13N3O2 (Free Base)	207.66 (HCl salt) 171.20 (Free Base)
2022		(1R,2S,5S)-3-((1R,2S,5S)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carbonyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxylic acid	CC1(C)[C@@H]2[C@H]1[C@@H](C(N(C3)[C@H](C(O)=O)[C@@H]4[C@H]3C4(C)C)=O)N(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)C2	Impurity	DCTI-C-2689	(1R,2S,5S)-3-((1R,2S,5S)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carbonyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxylic acid	NA	Nirmatrelvir dimer impurity	C24H34F3N3O5	501.55
2023		(1R,2S,5S)-N-((R)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl-5,5-d2)ethyl)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamide	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@@H](C#N)C[C@@H]3CC([2H])([2H])NC3=O)=O)N(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)C2	Impurity	DCTI-C-2690	(1R,2S,5S)-N-((R)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl-5,5-d2)ethyl)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamide	NA	Nirmatrelvir R-Isomer Nitrile-D2	C23H30D2F3N5O4	501.55
2024		(1R,2S,5S)-N-((R)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl-5,5-d2)ethyl)-3-((R)-3,3-dimethyl-2-(2,2,2-trifluoro acetamido)butanoyl)-6,6-dimethyl-3-azabicyclo [3.1.0]hexane-2-carboxamide (Nirmatrelvir)	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@@H](C#N)C[C@@H]3CC([2H])([2H])NC3=O)=O)N(C([C@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)C2	IMPURITY	DCTI-C-2598	(1R,2S,5S)-N-((R)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl-5,5-d2)ethyl)-3-((R)-3,3-dimethyl-2-(2,2,2-trifluoro acetamido)butanoyl)-6,6-dimethyl-3-azabicyclo [3.1.0]hexane-2-carboxamide	NA	Nirmatrelvir-R, R-Isomer Nitrile-D2	C23H30D2F3N5O4	501.55

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2025		Neratinib quinoline N-oxide	CN(C/C=C/C(NC1=C(OCC)C=C2[N+]([O-])=CC(C#N)=C(C2=C1)NC(C=C3)=CC(Cl)=C3OCC4=CC=CC=N4)=O)C	Impurity	DCTI-C-918	(E)-4-((3-chloro-4-(pyridin-2-ylmethoxy)phenyl)amino)-3-cyano-6-(4-(dimethylamino)but-2-enamido)-7-ethoxyquinoline 1-oxide	NA	NA	C30H29ClN6O4	573.05
2026		Neratinib pyridine N-oxide	CN(C)C/C=C/C(NC1=C(OCC)C=C(N=CC(C#N)=C2NC3=CC=C(OCC4=CC=CC=[N+]4[O-])C(Cl)=C3)C2=C1)=O	Metabolite	DCTI-C-919	(E)-2-((2-chloro-4-((3-cyano-6-(4-(dimethylamino)but-2-enamido)-7-ethoxyquinolin-4-yl)amino)phenoxy)methyl)pyridine 1-oxide	NA	NA	C30H29ClN6O4	573.05
2027		N-nitroso desmethyl neratinib	N#CC1=C(C2=C(N=C1)C=C(C(NC(/C=C/CN(C)N=O)=O)=C2)OCC)NC3=CC(Cl)=C(OCC4=NC=CC=C4)C=C3	NDSRI	DCTI-C-3446	(E)-N-(4-((3-chloro-4-(pyridin-2-ylmethoxy)phenyl)amino)-3-cyano-7-ethoxyquinolin-6-yl)-4-(methyl(nitroso)amino)but-2-enamide	NA	NA	C29H26ClN7O4	572.02
2028		Nirmatrelvir Impurity O	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@H](C#N)C[C@@H]3CCNC3=O)=O)N(C([C@@H](N)C(C)(C)C)=O)C2	Impurity	DCTI-C-3806	(1R,2S,5S)-3-((S)-2-amino-3,3-dimethylbutanoyl)-N-((S)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl)ethyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamide	2883654-28-0	(1R,2S,5S)-N-((1S)-1-cyano-2-((3S)-2-oxopyrrolidin-3-yl)ethyl)-6,6-dimethyl-3-(3-methyl-L-valyl)-3-azabicyclo[3.1.0]hexane-2-carboxamide	C21H33N5O3	403.53
2029		Nirmatrelvir Acid impurity	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@H](C(O)=O)C[C@@H]3CCNC3=O)=O)N(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)C2	Impurity	DCTI-C-2346	(S)-2-((1R,2S,5S)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamido)-3-((S)-2-oxopyrrolidin-3-yl)propanoic acid	NA	NA	C23H33F3N4O6	518.53

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2030		Nirmatrelvir chloro impurity	CC(C)(Cl)[C@H]1CCN(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)[C@@H]1C(N[C@H](C#N)C[C@@H]2CCNC2=O)=O	Impurity	DCTI-C-2347	(2S,3S)-3-(2-chloropropan-2-yl)-N-((S)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl)ethyl)-1-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)pyrrolidine-2-carboxamide	NA	Nirmatrelvir Impurity 17, Nirmatrelvir Impurity 4	C23H33ClF3N5O4	535.99
2031		Nirmatrelvir-R-nitrile-chloro impurity	CC(C)(Cl)[C@H]1CCN(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)[C@@H]1C(N[C@@H](C#N)C[C@@H]2CCNC2=O)=O	Impurity	DCTI-C-2348	(2S,3S)-3-(2-chloropropan-2-yl)-N-((R)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl)ethyl)-1-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)pyrrolidine-2-carboxamide	NA	NA	C23H33ClF3N5O4	535.99
2032		Nirmatrelvir Impurity-1 Hydrochloride	N[C@H](C(OC(C)C)=O)C[C@@H]1CCNC1=O.Cl	Impurity	DCTI-C-2349	isopropyl (S)-2-amino-3-((S)-2-oxopyrrolidin-3-yl)propanoate hydrochloride	NA	NA	C10H18N2O3 (Free Base) C10H19ClN2O3 (HCl Salt)	214.27 (Free Base) 250.72 (HCl Salt)
2033		Nirmatrelvir R-Isomer Nitrile	CC1(C)[C@@H]2[C@H]1[C@@H](C(N[C@@H](C#N)C[C@@H]3CCNC3=O)=O)N(C([C@@H](NC(C(F)(F)F)=O)C(C)(C)C)=O)C2	Impurity	DCTI-C-2350	(1R,2S,5S)-N-((R)-1-cyano-2-((S)-2-oxopyrrolidin-3-yl)ethyl)-3-((S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido)butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamide	2755812-41-8	NA	C23H32F3N5O4	499.54
2034		Nirmatrelvir Impurity 3	O=C(N[C@@H](C(C)(C)C)C(N1[C@H](C#N)[C@@]2([H])C(C)(C)[C@@]2([H])C1)=O)C(F)(F)F	Impurity	DCTI-C-2596	N-((S)-1-((1R,2S,5S)-2-cyano-6,6-dimethyl-3-azabicyclo[3.1.0]hexan-3-yl)-3,3-dimethyl-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide	NA	NA	C16H22F3N3O2	345.37
2035		6-Hydroxy Norethindrone Acetate	CC12CCC3C(CC(O)C4=CC(CCC34)=O)C1CC[C@@]2(OC(C)=O)C#C	impurity	DCTI-C-1816	(17R)-17-ethynyl-6-hydroxy-13-methyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	NA	Norethindrone Acetate EP imp-F	C22H28O4	356.46

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2036	Norethindrone	Norethindrone Acetate Impurity-D	C#C[C@]1(OC(C)=O)CC[C@@]2([H])[C@]3([H])C[C@@]([H])(C(C)=O)C4=CC(CC[C@]4([H])[C@@]3([H])CC[C@]12C)=O	impurity	DCTI-C-1817	(6R,8R,9S,10R,13S,14S,17R)-6-acetyl-17-ethynyl-13-methyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	NA	6β-Acetyl Norethindrone Acetate	C24H30O4	382.5
2037		Dihydro Norethindrone (Mixture of Isomers)	O=C1CC[C@@]2([H])C(CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4(C#C)O)C1	Metabolite	DCTI-C-2511	(8R,9R,10S,13S,14S,17R)-17-ethynyl-17-hydroxy-13-methylhexadecahydro-3H-cyclopenta[a]phenanthren-3-one	52-79-9	NA	C20H28O2	300.44
2038	Norgestimate	(Z)-Norgestimate	CC[C@@]12[C@](CC[C@@]2(OC(C)=O)C#C)([H])[C@@]3([H])[C@]([C@]4([H])C(CC3)=C/C(CC4)=N\O)([H])CC1	Impurity	DCTI-C-3777	(8R,9S,10R,13S,14S,17R,Z)-13-ethyl-17-ethynyl-3-(hydroxyimino)-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	107382-51-4	syn-Norgestimate	C23H31NO3	369.5
2039		(E)-Norgestimate	CC[C@@]12[C@](CC[C@@]2(OC(C)=O)C#C)([H])[C@@]3([H])[C@]([C@]4([H])C(CC3)=C/C(CC4)=N/O)([H])CC1	Impurity	DCTI-C-3776	(8R,9S,10R,13S,14S,17R,E)-13-ethyl-17-ethynyl-3-(hydroxyimino)-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	107382-52-5	anti-Norgestimate	C23H31NO3	369.5
2040	Obeticholic acid	OCA 3 Glucoronide	C[C@H](CCC(O)=O)[C@@]1([H])CC[C@@]2([H])[C@]3([H])[C@H](O)[C@H](CC)[C@]4([H])C[C@H](OC5O[C@H](C(O)=O)C(O)[C@@H](O)[C@H]5O)CC[C@]4(C)[C@@]3([H])CC[C@@]21C	Metabolite	DCTI-A-148	(2S,4R,5R)-6-(((3R,5S,6R,7R,8S,9S,10S,13R,14S,17R)-17-((R)-4-carboxybutan-2-yl)-6-ethyl-7-hydroxy-10,13-dimethylhexadecahydro-1H-cyclopenta[a]phenanthren-3-yl)oxy)-3,4,5-trihydroxytetrahydro-2H-pyran-2-carboxylic acid	NA	NA	C32H52O10	596.76
2041		Obeticholic acid-[PEG]-n-Ester	C[C@H](CCC(OCCO)=O)[C@H]1CC[C@]2([C@@]3([C@@H]([C@@H](C4C[C@@H](CC[C@@]4([C@]3(CC[C@]12C)[H])C)O)CC)O)[H])[H]	Impurity	DCTI-C-1864	2-hydroxyethyl (4R)-4-((3R,6R,7R,8S,9S,10S,13R,14S,17R)-6-ethyl-3,7-dihydroxy-10,13-dimethylhexadecahydro-1H-cyclopenta[a]phenanthren-17-yl)pentanoate	NA	NA	C28H48O5	464.69

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2042		Olaparib Desfluoro Impurity	O=C1C2=CC=CC=C2C(CC3=CC(C(N4CCN(C(C5CC5)=O)CC4)=O)=CC=C3)=NN1	impurity	DCTI-C-1865	4-(3-(4-(cyclopropanecarbonyl)piperazine-1-carbonyl)benzyl)phthalazin-1(2H)-one	763113-06-0	1-(Cyclopropylcarbonyl)-4-[5-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-benzoyl]pipera zine	C24H24N4O3	416.48
2043		Olaparib Amine impurity	O=C1C2=CC=CC=C2C(CC3=CC(C(N4CCNCC4)=O)=C(F)C=C3)=NN1	impurity	DCTI-C-2110	4-(4-fluoro-3-(piperazine-1-carbonyl)benzyl)phthalazin-1(2H)-one	763111-47-3	Piperazine,1-[5-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-2-fluorobenzoyl]- (9CI); 1-[5-[(3,4-Dihydro-4-oxo-1-phthalazinyl)methyl]-2-fluorobenzoyl]piperazine; 4-(4-Fluoro-3-(piperazine-1-carbonyl)benzyl)phthalazin-1(2H)-one; (4-[[4-Fluoro-3-(1-	C20H19FN4O2	366.4
2044		Olaparib Acid Impurity	O=C1C2=CC=CC=C2C(CC3=CC(C(O)=O)=C(F)C=C3)=NN1	impurity	DCTI-C-2090	2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzoic acid	763114-26-7	5-[(3,4-Dihydro-4-oxo-1-phthalazinyl)methyl]-2-fluorobenzoic Acid; 2-Fluoro-5-[(4-oxo-3H-phthalazin-1-yl)methyl]benzoic acid; Benzoic acid, 5-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-2-fluoro-; Acid Impurity	C16H11FN2O3	298.27
2045		Diketo Impurity of Olaparib	O=C1C2=CC=CC=C2C(CC3=CC(C(N4CCN(C(C(N(CC5)CCN5C(C6=C(F)C=CC(CC7=NNC(C8=CC=CC=C87)=O)=C6)=O)=O)=O)CC4)=O)=C(F)C=C3)=NN1	impurity	DCTI-C-2091	1,2-bis(4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzoyl)piperazin-1-yl)ethane-1,2-dione	NA	Olaparib di Keto Impurity	C42H36F2N8O6	786.8

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2046	Olaparib	Diamide Impurity of Olaparib	O=C1C2=CC=CC=C2C(CC3=CC(C(N4CCN(C(C5=C(F)C=CC(CC6=NNC(C7=CC=CC=C76)=O)=C5)=O)CC4)=O)=C(F)C=C3)=NN1	impurity	DCTI-C-2092	4,4'-(((piperazine-1,4-dicarbonyl)bis(4-fluoro-3,1-phenylene))bis(methylene))bis(phthalazin-1(2H)-one)	2250242-62-5	51(2H)-Phthalazinone, 4,4'-[1,4-piperazinediylbis[carbonyl(4-fluoro-3,1-phenylene)methylene]]bis-; Olaparib di amide Impurity; Olaparib Impurity 14	C36H28F2N6O4	646.65
2047		CIS CENTCHROMAN HCl	O=C1C2=CC=CC=C2C(CC3=CC(C(N4CCN(C(OC(C)(C)C)=O)CC4)=O)=C(F)C=C3)=NN1	impurity	DCTI-C-2093	tert-butyl 4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzoyl)piperazine-1-carboxylate	763114-04-1	1,1-Dimethylethyl 4-[5-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-2-fluorobenzoyl]-1-piperazinecarboxylate; tert-Butyl-4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzoyl)piperazine-1-carboxylate; Tert-butyl 4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-	C25H27FN4O4	466.51
2048		Olaparib Pyrolidione Adduct	O=C1C2=CC=CC=C2C(C(N3C(CCC3)=O)C4=CC(C(N5CCN(C(C6CC6)=O)CC5)=O)=C(F)C=C4)=NN1	impurity	DCTI-C-2111	4-((3-(4-(cyclopropanecarbonyl)piperazine-1-carbonyl)-4-fluorophenyl)(2-oxopyrrolidin-1-yl)methyl)phthalazin-1(2H)-one	NA	NA	C28H28FN5O4	517.56
2049		Olaparib Dimethylbenzamide Impurity	O=C1C2=CC=CC=C2C(CC3=CC(C(N(C)C)=O)=C(F)C=C3)=NN1	impurity	DCTI-C-1619	Olaparib Dimethylbenzamide Impurity	NA	2-fluoro-N,N-dimethyl-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzamide	C18H16FN3O2	325.34
2050		Olaparib Impurity E	FC1=C(C(N2CCN(C(C3CC3)=O)CC2)=O)C=C(/C=C4C(C=CC=C5)=C5C(O/4)=O)C=C1	IMPURITY	DCTI-C-3219	3-[[3-[[4-(Cyclopropylcarbonyl)-1-piperazinyl] carbonyl]-4-fluorophenyl]methylene]-1(3H)-isobenzofuranone	1830366-25-0	NA	C24H21FN2O4	420.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2051	**Orphenadrine**	Nitrosamine impurity of Orphenadrine (Mixture of isomers)	CC1=CC=CC=C1C(OCCN(N=O)C)C2=CC=CC=C2	NDSRI	DCTI-C-2359	N-methyl-N-(2-(phenyl(o-tolyl)methoxy)ethyl)nitrous amide	NA	NA	C17H20N2O2	284.36
2052	**Oxcarbazepine impurity**	10-methoxy-5'H-5,10'-bidibenzo[b,f]azepine	COC1=CC2=CC=CC=C2N(C3=CC4=CC=CC=C4NC5=C3C=CC=C5)C6=C1C=CC=C6	Impurity	DCTI-C-3313	10-methoxy-5'H-5,10'-bidibenzo[b,f]azepine	NA	Dimer A, Oxcarbazepine Dimer	C29H22N2O	414.51
2053		Carbamazepine Dione	O=C(N)N1C=2C=CC=CC2C(=O)C(=O)C=3C=CC=CC31	Impurity	DCTI-C-3581	10,11-dioxo-10,11-dihydro-5H-dibenzo[b,f]azepine-5-carboxamide	537693-29-1	na	C15H10N2O3	266.26
2054		N-Demethyl Olanzapine	CC1=CC2=C(S1)NC3=C(C=CC=C3)N=C2N4CCNCC4	Metabolite	DCTI-C-878	2-methyl-4-(piperazin-1-yl)-10H-benzo[b]thieno[2,3-e][1,4]diazepine	161696-76-0	N-Desmethylolanzapine; LY 170055	C16H18N4S	298.41
2055		Olanzapine Related Compound A	N#CC1=C(NC2=CC=CC=C2[N+]([O-])=O)SC(C)=C1	Impurity	DCTI-C-879	5-methyl-2-((2-nitrophenyl)amino)thiophene-3-carbonitrile	138564-59-7	Olanzapine impurity A	C12H9N3O2S	259.28
2056		Olanzapine Related Compound B	O=C1NC2=C(NC3=C1C=C(C)S3)C=CC=C2	Impurity	DCTI-C-880	2-methyl-5,10-dihydro-4H-benzo[b]thieno[2,3-e][1,4]diazepin-4-one	221176-49-4	Olanzapine EP Impurity B; Olanzapine Impurity-B; LY 301664	C12H10N2OS	230.29

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2057	**Olanzapine**	Olanzapine Thiolactam Impurity	CN1CCN(C(/C2=C/C(C)=O)=NC3=C(NC2=S)C=CC=C3)CC1	Impurity	DCTI-C-877	(Z)-1-(4-(4-methylpiperazin-1-yl)-2-thioxo-1,2-dihydro-3H-benzo[b][1,4]diazepin-3-ylidene)propan-2-one	1017241-36-9	NA	C17H20N4OS	328.43
2058		Olanzapine BP Impurity-3	O=C1NC2=CC=CC=C2N=C(N3CCN(C)CC3)/C1=C/C(C)=O	Impurity	DCTI-C-702	(Z)-4-(4-methylpiperazin-1-yl)-3-(2-oxopropylidene)-1,3-dihydro-2H-benzo[b][1,4]diazepin-2-one	NA	Olanzapine Lactam Impurity; Olanzapine Ketolactam	C17H20N4O2	312.37
2059		Olanzapine degradation impurities 1 and 2	NC1=CC=CC=C1N2C3=C(N=C(C4=NC5=C(S4)N(C(C)=C5)C6=CC=CC=C6N)S3)C=C2C>>NC7=CC=CC=C7N8C9=C(N=C(C(S%10)=NC%11=C%10N(C%12=C(N)C=CC=C%12)C(C)=C%11)S9)C=C8C	Impurity	DCTI-C-2555	2,2'-(5,5'-dimethyl-4H,4'H-[2,2'-bipyrrolo[3,2-d]thiazole]-4,4'-diyl)dianiline	NA	RRT 0.93 and 1.13 of AB HCl (Intermediate of Olanzapine); Olanzapine impurities at 0.93 and 1.13 RRT	C24H20N6S2	456.59
2060		4-(chloromethyl)-5-methyl-2-oxo-1,3-dioxolene	ClCC1=C(C)OC(O1)=O	impurity	DCTI-C-1303	4-(chloromethyl)-5-methyl-1,3-dioxol-2-one	80841-78-7	Olmesartan Medoxomil Impurity; Chloro Derivative Impurity	C5H5ClO3	148.54
2061		Olmesartan Dimer Impurity	CC(OC(C(N(C(CCC)=N1)CC2=CC=C(C3=C(C=CC=C3)C4=NNN=N4)C=C2)=C1C(C)(O)C)=O)(C5=C(C(O)=O)N(C(CCC)=N5)CC6=CC=C(C7=C(C=CC=C7)C8=NNN=N8)C=C6)C	Impurity	DCTI-C-116	1-((2'-(2H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-4-(2-((1-((2'-(2H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-4-(2-hydroxypropan-2-yl)-2-propyl-1H-imidazole-5-carbonyl)oxy)propan-2-yl)-2-propyl-1H-imidazole-5-carboxylic acid	1040250-19-8	NA	C48H50N12O5	875.01

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2062	Olmesartan	Olmesartan Ethyl Ester Impurity	CCCC1=NC(C(C)(O)C)=C(C(OCC)=O)N1CC(C=C2)=CC=C2C3=C(C4=NN=NN4)C=CC=C3	Impurity	DCTI-C-073	ethyl 1-((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-4-(2-hydroxypropan-2-yl)-2-propyl-1H-imidazole-5-carboxylate	144689-23-6	NA	C26H30N6O3	474.57
2063		Olmesartan Acid	CCCC1=NC(C(C)(O)C)=C(C(O)=O)N1CC(C=C2)=CC=C2C3=C(C4=NN=NN4)C=CC=C3	Metabolite	DCTI-C-074	1-((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-4-(2-hydroxypropan-2-yl)-2-propyl-1H-imidazole-5-carboxylic acid	144689-24-7	CS 088; RNH 6270; Olmesartan EP Impurity A	C24H26N6O3	446.51
2064		Triphenylmethyl chloride	ClC(C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3	impurity	DCTI-C-1264	(chloromethanetriyl)tribenzene	76-83-5	Trityl chloride; NSC 435	C19H15Cl	278.78
2065		Olmesartan: OMJ-2-Ethyl Impurity	CCC1=NC(C(C)(O)C)=C(C(OCC2=C(C)OC(O2)=O)=O)N1CC(C=C3)=CC=C3C4=C(C5=NN(C(C6=CC=CC=C6)(C7=CC=CC=C7)C8=CC=CC=C8)N=N5)C=CC=C4	Impurity	DCTI-C-690	(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl 2-ethyl-4-(2-hydroxypropan-2-yl)-1-((2'-(2-trityl-2H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-imidazole-5-carboxylate	NA	NA	C47H42N6O6	786.89
2066		Olopatadine related compound C	O=C1C2=C(C=CC(CC(O)=O)=C2)OCC3=CC=CC=C31	impurity	DCTI-C-1403	2-(11-oxo-6,11-dihydrodibenzo[b,e]oxepin-2-yl)acetic acid	55453-87-7	Artil; HP 549; Isoxepac; NSC 300907; P 720549	C16H12O4	268.27

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2067	**Olopatadine**	Olopatadine E-isomer Hydrochloride	CN(CC/C=C1C2=CC=CC=C2COC3=CC=C(C=C\13)CC(O)=O)C.Cl	impurity	DCTI-C-1265	(E)-2-(11-(3-(dimethylamino)propylidene)-6,11-dihydrodibenzo[b,e]oxepin-2-yl)acetic acid hydrochloride	949141-22-4	trans-Olopatadine hydrochloride	C21H24ClNO3 (HCl salt) C21H23NO3 (Free Base)	373.88 (HCl salt) 337.42 (Free Base)
2068		α-Hydroxy Olopatadine Hydrochloride	OC(C(O)C(C=C1)=CC2=C1OCC3=CC=CC=C3/C2=C/CCN(C)C)=O.Cl	impurity	DCTI-C-1266	(Z)-2-(11-(3-(dimethylamino)propylidene)-6,11-dihydrodibenzo[b,e]oxepin-2-yl)-2-hydroxyacetic acid hydrochloride	1628639-06-4	O-Hydroxy Olopatadine Hydrochloride; Olopatadine USP Related Compound A; Hydroxy Olopatadine; Olopatadine impurity-A	C21H24ClNO4 (HCl Salt) C21H23NO4 (Free Base)	389.87 (HCl Salt) 353.42 (Free Base)
2069		Olopatadine Carbaldehyde Hydrochloride	O=CC(C=C1)=CC2=C1OCC3=CC=CC=C3/C2=C/CCN(C)C.Cl	impurity	DCTI-C-1267	(Z)-11-(3-(dimethylamino)propylidene)-6,11-dihydrodibenzo[b,e]oxepine-2-carbaldehyde hydrochloride	NA	NA	C20H22ClNO2 (HCl Salt) C20H21NO2 (Free Base)	343.85 (HCl Salt) 307.39 (Free Base)
2070		Olopatadine Methyl Ester	O=C(OC)CC1=CC=C(C/2=C1)OCC3=CC=CC=C3C2=C\CCN(C)C	Impurity	DCTI-C-3384	methyl (Z)-2-(11-(3-(dimethylamino)propylidene)-6,11-dihydrodibenzo[b,e]oxepin-2-yl)acetate	113806-01-2	NA	C22H25NO3	351.45
2071	**Olodaterol**	S-Olodaterol	COC(C=C1)=CC=C1CC(C)(C)NC[C@H](C2=C3C(NC(CO3)=O)=CC(O)=C2)O	Impurity	DCTI-C-3535	(S)-6-hydroxy-8-(1-hydroxy-2-((1-(4-methoxyphenyl)-2-methylpropan-2-yl)amino)ethyl)-2H-benzo[b][1,4]oxazin-3(4H)-one	868049-50-7	Olodaterol Enantiomer	C21H26N2O5	386.45
2072		Ondansetron impurity-C	O=C1CCCC2=C1C3=CC=CC=C3N2C	Impurity	DCTI-C-820	9-methyl-1,2,3,9-tetrahydro-4H-carbazol-4-one	27387-31-1	NA	C13H13NO	199.25

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2073	Ondansetron	Ondansetron Related Compound A	CN1C2=CC=CC=C2C3=C1CCC(CN(C)C)C3=O	impurity	DCTI-C-2135	3-((dimethylamino)methyl)-9-methyl-1,2,3,9-tetrahydro-4H-carbazol-4-one	153139-56-1	NA	C16H20N2O	256.35
2074		Ondansetron Impurity-G	O=C1C(CN2C=CN=C2)CCC3=C1C4=CC=CC=C4N3C	Impurity	DCTI-C-821	3-((1H-imidazol-1-yl)methyl)-9-methyl-1,2,3,9-tetrahydro-4H-carbazol-4-one	99614-03-6	NA	C17H17N3O	279.34
2075		Ondansetron Impurity-I	O=C1CCCC2=C1C3=CC=CC=C3N2	impurity	DCTI-C-1500	1,2,3,9-tetrahydro-4H-carbazol-4-one	15128-52-6	NA	C12H11NO	185.23
2076		Ondansetron Related compound - D	O=C(C1=C(CC2)N(C)C3=CC=CC=C31)C2=C	Impurity	DCTI-C-822	9-methyl-3-methylene-1,2,3,9-tetrahydro-4H-carbazol-4-one	99614-64-9	NA	C14H13NO	211.26
2077		Ondansetron Impurity-H	CC1=NC=CN1CC(C2=O)CCC3=C2C4=CC=CC=C4N3	Metabolite	DCTI-C-1175	3-((2-methyl-1H-imidazol-1-yl)methyl)-1,2,3,9-tetrahydro-4H-carbazol-4-one	99614-14-9	Desmethylondansetron; N-desmethylondansetron	C17H17N3O	279.34
2078		8-Hydroxy Ondansetron	O=C1C(CN2C(C)=NC=C2)CCC(N3C)=C1C4=C3C(O)=CC=C4	Metabolite	DCTI-C-3725	8-hydroxy-9-methyl-3-((2-methyl-1H-imidazol-1-yl)methyl)-1,2,3,9-tetrahydro-4H-carbazol-4-one	126671-71-4	NA	C18H19N3O2	309.37
2079		Ondansetron Impurity 4 HCl	CC1=NC=CN1CC2CC(O)C(N(C)C3=C4C=CC=C3)=C4C2=O.Cl	Metabolite	DCTI-C-3809	1-hydroxy-9-methyl-3-((2-methyl-1H-imidazol-1-yl)methyl)-1,2,3,9-tetrahydro-4H-carbazol-4-one hydrochloride	NA	Ondansetron Impurity 4 HCl(Mixture of isomers)	C18H19N3O2(Free Base) C18H20ClN3O2 (HCl Salt)	309.37(Free Base) 345.83(HCl Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2080		Ondansetron Impurity	O=C1C(CN2C=CN=C2C)CCC(N3C)=C1C4=C3C=CC(O)=C4	Impurity	DCTI-C-3061	6-hydroxy-9-methyl-3-((2-methyl-1H-imidazol-1-yl)methyl)-1,2,3,9-tetrahydro-4H-carbazol-4-one	110708-17-3	6-Hydroxy Ondansetron	C18H19N3O2	309.37
2081	**Omeprazole**	Omeprazole EP Impurity A	SC1=NC2=CC(OC)=CC=C2N1	impurity	DCTI-C-2239	5-methoxy-1H-benzo[d]imidazole-2-thiol.	NA	2-Mercapto-5-methoxy-1H-benzimidazole; 2-Mercapto-5-methoxybenzimidazole; 5-Methoxy-1H-benzimidazole-2-thiol; 5-Methoxy-2-benzimidazolethiol; Esomeprazol EP Impurity A; 1,3-Dihydro-5-methoxy-2H-benzimidazole-2-thione.	C8H8N2OS	180.23
2082		Omeprazole EP Impurity C	CC(C(OC)=C(C)C=N1)=C1CSC2=NC3=CC(OC)=CC=C3N2	impurity	DCTI-C-2240	5-methoxy-2-(((4-methoxy-3,5-dimethylpyridin-2-yl)methyl)thio)-1H-benzo[d]imidazole.	NA	Omeprazole sulfide; 2-[[(3,5-Dimethyl-4-methoxy-2-pyridyl)methyl]thio]-5-methoxybenzimidazole; Ufiprazole; Esomeprazol EP Impurity C; Pyrmetazole; Omeprazole metabolite.	C17H19N3O2S	329.42
2083		Omeprazole EP impurity F&G mixture	O=C1C(C)=C2N(C3=NC4=CC(OC)=CC=C4N3C2=S)C=C1C.O=C5C(C)=C6N(C7=NC8=CC=C(OC)C=C8N7C6=S)C=C5C	Impurity	DCTI-C-2627	1,3-Dimethyl-8-methoxy-12-thioxopyrido[1',2':3,4]imidazo[1,2-a]benzimidazol-2(12H)-one ; 9-methoxy-1,3-dimethyl-12-thioxopyrido[1',2':3,4]imidazo[1,2-a]benzimidazol-2(12H)-one	NA	Omeparazole tmpurities(mixture of regio isomers);omeparazolerelated compound F&G(USP);omeparazoleEP impurity F+omeparazole EP impurity G;8(9)-methoxy-1,3-dimethyl-12-thioxopyrido(1m,2,3,4)imidazol(1,2-a)benzimuidazol-2-	C16H13N3O2S	311.36
2084		CIS CENTCHROMAN HCl	CC1(C)[C@H](c2ccccc2)[C@H](c3ccc(OCCN4CCCC4)cc3)c5c(O1)cc(OC)cc5.Cl	impurity	DCTI-C-2136	1-(2-(4-((3S,4R)-7-methoxy-2,2-dimethyl-3-phenylchroman-4-yl)phenoxy)ethyl)pyrrolidine hydrochloride	NA	Cis-Ormeloxifene HCl.	C30H35NO3 (Free Base) C30H36ClNO3 (HCl salt)	457.61 (Free Base) 494.07 (HCl salt)

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2085	**Ormeloxifene**	7-Desmethyl Ormeloxifene	OC1=CC=C2C(OC(C)(C)[C@H](C3=CC=CC=C3)[C@H]2C4=CC=C(OCCN5CCCC5)C=C4)=C1	Metabolite	DCTI-C-812	(3S,4S)-2,2-dimethyl-3-phenyl-4-(4-(2-(pyrrolidin-1-yl)ethoxy)phenyl)chroman-7-ol	NA	NA	C29H33NO3	443.59
2086		Oseltamivir Impurity 9 HCl	O=C(C1=CC(C(C(C1)NC(C)=O)N(CC=C)CC=C)OC(CC)CC)OCC.Cl	Impurity	DCTI-C-133	ethyl 5-acetamido-4-(diallylamino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate hydrochloride	NA	NA	C22H37ClN2O4 (HCl Salt) C22H36N2O4 (Free base)	429.00 (HCl Salt) 392.54 (Free base)
2087		Ethyl (3R,4R,5S)-4-acetamido-5-(((5-formylfuran-2-yl)methyl)amino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](NC(C)=O)[C@@H](NCC(O2)=CC=C2C=O)C1	impurity	DCTI-C-2094	Ethyl (3R,4R,5S)-4-acetamido-5-(((5-formylfuran-2-yl)methyl)amino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	Oseltamivir furfural derivative	C22H32N2O6	420.51
2088		Oseltamivir Carboxylic Acid	O=C(C1=C[C@H]([C@@H]([C@H](C1)N)NC(C)=O)OC(CC)CC)O.Cl	Metabolite	DCTI-C-152	(3R,4R,5S)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylic acid hydrochloride	187227-45-8	GS 4071; Ro 64-0802	C14H25ClN2O4 (HCl Salt) C14H24N2O4 (Free base)	320.81 (HCl Salt) 284.36 (Free base)
2089		Oseltamivir Impurity 73	O=C(OCC)C1=C[C@@H](O)[C@@H](O)[C@H](OS(=O)(C)=O)C1	impurity	DCTI-C-2241	(3R, 4R, 5R)-3,4-Dihydroxy-5-[(methylsulfonyl)oxy]-1-cyclohexene-1-carboxylic Acid Ethyl Ester.	NA	NA	C10H16O7S	280.29

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2090		Oseltamivir Impurity I HCl	O=C(OCC)C1=C[C@@H](OC(C)C)[C@H](NC(C)=O)[C@@H](N)C1.Cl	impurity	DCTI-C-2242	Ethyl (3R,4R,5S)-4-acetamido-5-amino-3-isopropoxycyclohex-1-ene-1-carboxylate hydrochloride.	NA	Oseltamivir Impurity 54 HCl.	C14H24N2O4 (Free base) C14H25ClN2O4 (HCl Salt)	284.36 (Free base) 320.81 (HCl Salt)
2091		Oseltamivir impurity 24	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](N2C(C)(C)C)[C@H]2C1	Impurity	DCTI-C-1761	ethyl (1R, 5R, 6R)-7-(tert-butyl)-5-(pentan-3-yloxy)-7-azabicyclo [4.1.0] hept-3-ene-3-carboxylate	NA	NA	C18H31NO3	309.45
2092		1,2-Dihydro-Oseltamivir	CCC(O[C@@H]1CC(C(OCC)=O)C[C@H](N)[C@H]1NC(C)=O)CC	Impurity	DCTI-C-1501	ethyl (3S,4R,5R)-4-acetamido-3-amino-5-(pentan-3-yloxy)cyclohexane-1-carboxylate	1052063-38-3	NA	C16H30N2O4	314.43
2093		Oseltamivir impurity-10	O=C(C1=CC(C(C(C1)N(CC=C)CC=C)NC(C)=O)OC(CC)CC)OCC	Impurity	DCTI-C-153	ethyl 4-acetamido-5-(diallylamino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	NA	C22H36N2O4	392.54
2094		Oseltamivir Impurity-G	O=C(C1=C[C@H]([C@@H]([C@H](C1)NC(C)=O)N)OC(CC)CC)OCC	Impurity	DCTI-C-198	Ethyl (3R,4R,5S)-5-acetamido-4-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	956267-10-0	NA	C16H28N2O4	312.41
2095		Oseltamivir EP Impurity A Hydrochloride	O=C(C1=C[C@H]([C@@H]([C@H](C1)NC(C)=O)N)OC(CC)CC)O.Cl	Impurity	DCTI-C-237	(3R,4R,5S)-5-acetamido-4-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylic acid hydrochloride	1364932-19-3(freebase)	NA	C14H25ClN2O4 (HCl Salt) C14H24N2O4 (Free base)	320.81 (HCl Salt) 284.36 (Free base)

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2096		Oseltamivir Impurity-1	O=C(C1=C[C@H]([C@@H]([C@H](C1)N2C(CO)=CC=C2C=O)NC(C)=O)OC(CC)CC)OCC	Impurity	DCTI-C-587	ethyl (3R,4R,5S)-4-acetamido-5-(2-formyl-5-(hydroxymethyl)-1H-pyrrol-1-yl)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	NA	C22H32N2O6	420.51
2097		(3R,4R,5R)- Oseltamivir hydrochloride	O=C(OCC)C1=C[C@H](OC(CC)CC)[C@H](NC(C)=O)[C@H](N)C1.Cl	Impurity	DCTI-C-640	ethyl (3R,4R,5R)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate hydrochloride	1402431-91-7 (Free base)	(3R,4R,5R)-Oseltamivir Diastereomer	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)
2098		(3R,4S,5R)- Oseltamivir hydrochloride	O=C(OCC)C1=C[C@H](OC(CC)CC)[C@@H](NC(C)=O)[C@H](N)C1.Cl	Impurity	DCTI-C-641	ethyl (3R,4S,5R)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate hydrochloride	941296-96-4 (Free base)	(3R,4S,5R)-Oseltamivir Diastereomer	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)
2099		(3S,4R,5S)- Oseltamivir hydrochloride	O=C(OCC)C1=C[C@H](OC(CC)CC)[C@H](NC(C)=O)[C@@H](N)C1.Cl	Impurity	DCTI-C-642	ethyl (3S,4R,5S)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate hydrochloride	2081110-43-0 (Free base)	(3S,4R,5S)- Oseltamivir Diastereomer	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)
2100		(3S,4S,5R)- Oseltamivir hydrochloride	O=C(OCC)C1=C[C@H](OC(CC)CC)[C@@H](NC(C)=O)[C@H](N)C1.Cl	Impurity	DCTI-C-643	ethyl (3S,4S,5R)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate hydrochloride	NA	(3S,4S,5R)- Oseltamivir Enantiomer	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)

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2101	Oseltamivir	(3S,4S,5S)- Oseltamivir hydrochloride	O=C(OCC)C1=C[C@H](OC(CC)CC)[C@@H](NC(C)=O)[C@@H](N)C1.Cl	Impurity	DCTI-C-644	ethyl (3S,4S,5S)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate hydrochloride	NA	NA	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)
2102		(3R,4S,5S)- Oseltamivir hydrochloride	O=C(C1=C[C@H]([C@H]([C@H](C1)N)NC(C)=O)OC(CC)CC)OCC	Impurity	DCTI-C-658	ethyl (3R,4S,5S)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	(3R,4S,5S)- Oseltamivir Diastereomer	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)
2103		(3S,4R,5R)- Oseltamivir hydrochloride	O=C(C1=C[C@H](OC(CC)CC)[C@H](NC(C)=O)[C@H](N)C1)OCC	Impurity	DCTI-C-660	ethyl (3S,4R,5R)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	(3S,4R,5R)- Oseltamivir Diastereomer	C16H29ClN2O4 (HCl Salt) C16H28N2O4 (Free base)	348.87 (HCl Salt) 312.41 (Free base)
2104		(3R,4R,5S)-ethyl -4-acetamido-5-(((E)-(5-(hydroxy methyl)furan-2-yl)methylene)amino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	OCC1=CC=C(/C=N/[C@H]2CC(C(OCC)=O)=C[C@@H](OC(CC)CC)[C@@H]2NC(C)=O)O1	Impurity	DCTI-C-659	ethyl (3R,4R,5S)-4-acetamido-5-(((E)-(5-(hydroxymethyl)furan-2-yl)methylene)amino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	Oseltamivir Impurity-7	C22H32N2O6	420.51
2105		Oseltamivir EP Impurity-D	O=C(OCC)C1=CC=C(NC(C)=O)C(O)=C1	Impurity	DCTI-C-845	ethyl 4-acetamido-3-hydroxybenzoate	1346604-18-9	NA	C11H13NO4	223.23

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2106		Ethyl (1S, 5R, 6S)-5-(pentan-2-yloxy)-7-oxabicyclo [4.1.0] hept-3-ene-3-carboxylate	O=C(OCC)C1=C[C@@H](OC(C)CCC)[C@@H](O2)[C@@H]2C1	impurity	DCTI-C-1026	ethyl (1S, 5R, 6S)-5-(pentan-2-yloxy)-7-oxabicyclo [4.1.0] hept-3-ene-3-carboxylate	NA	Oseltamivir impurity 40	C14H22O4	254.32
2107		Ethyl (1S, 5R, 6S)-5-(sec-butoxy)-7-oxabicyclo [4.1.0] hept-3-ene-3-carboxylate	O=C(OCC)C1=C[C@@H](OC(C)CC)[C@@H](O2)[C@@H]2C1	impurity	DCTI-C-1027	ethyl (1S, 5R, 6S)-5-(sec- butoxy)-7-oxabicyclo [4.1.0] hept-3-ene-3-carboxylate	NA	Oseltamivir impurity 39	C13H20O4	240.3
2108		Oseltamivir Diamine	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](N)[C@@H](N)C1	impurity	DCTI-C-1028	ethyl (3R, 4R, 5S)-4, 5-diamino-3-(pentan-3-yloxy) cyclohex-1- ene- 1-carboxylate	212504-89-7	Oseltamivir impurity 15	C14H26N2O3	270.37
2109		Oseltamivir EP Impurity E	O=C(OC)C1=C[C@@H](OC(CC)CC)[C@H](NC(C)=O)[C@@H](N)C1.O=P(OO)=O.[HH]	impurity	DCTI-C-1080	methyl (3R,4R,5S)-4-acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate Phosphate	NA	Oseltamivir Acid Methyl Ester Phosphate Salt	C15H29N2O8P (Phospate Salt) C15H26N2O4 (Free base)	396.38 (Phospate Salt) 298.38 (Free base)
2110		Oseltamivir impurity 61	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](NC(C)=O)[C@@H](N=[N+]=[N-])C1	impurity	DCTI-C-1094	ethyl (3R, 4R, 5S)-4-acetamido-5-azido-3-(pentan-3-yloxy) cyclohex-1-ene-1-carboxylate	204255-06-1	5-Azido Oseltamivir	C16H26N4O4	338.41
2111		Oseltamivir impurity 60	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](N)[C@@H](N=[N+]=[N-])C1	impurity	DCTI-C-1095	ethyl (3R, 4R, 5S)-4-amino-5-azido-3-(pentan-3-yloxy) cyclohex-1- ene- 1-carboxylate	204255-04-9	NA	C14H24N4O3	296.37

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2112		Oseltamivir impurity 59	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@@H](O)[C@H](N=[N+]=[N-])C1	impurity	DCTI-C-1096	ethyl (3R, 4S, 5R)-5-azido-4-hydroxy-3-(pentan-3-yloxy) cyclohex-1-ene-1-carboxylate	204254-98-8	NA	C14H23N3O4	297.36
2113		Oseltamivir Impurity VIII	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](NC(C)=O)[C@@H](NCC=C)C1	impurity	DCTI-C-1201	ethyl (3R,4R,5S)-4-acetamido-5-(allylamino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	312904-18-0	Oseltamivir Mono Allyl Impurity	C19H32N2O4	352.48
2114		Ethyl (3R,4R,5R)-5-chloro-4-hydroxy-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@@H](O)[C@H](Cl)C1	Impurity	DCTI-C-2672	Ethyl (3R,4R,5R)-5-chloro-4-hydroxy-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	2762080-42-0	Oseltamivir impurity R	C14H23ClO4	290.78
2115		Oseltamivir EP Impurity F	CCOC(C1=C[C@@H](OC(C)CC)[C@H](NC(C)=O)[C@@H](N)C1)=O	Impurity	DCTI-C-2819	ethyl (3R,4R,5S)-4-acetamido-5-amino-3-(sec-butoxy)cyclohex-1-ene-1-carboxylate	1052063-37-2	3-Des(1-ethylpropoxy)-3-(1-methylpropoxy) Oseltamivir	C15H26N2O4	298.38
2116		Oseltamivir Nitroso Impurity 1	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@@H](O)[C@H](N(N=O)C(C)(C)C)C1	NDSRI	DCTI-C-2366	ethyl (3R,4S,5R)-5-(tert-butyl(nitroso)amino)-4-hydroxy-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	NA	C18H32N2O5	356.46
2117		Oseltamivir Nitroso Impurity 2	O=C(OCC)C1=C[C@@H](OC(CC)CC)[C@H](N(N=O)C(C)(C)C)[C@@H](N(CC=C)CC=C)C1	NDSRI	DCTI-C-2367	Ethyl (3R,4R,5S)-4-(tert-butyl(nitroso)amino)-5-(diallylamino)-3-(pentan-3-yloxy) cyclohex-1-ene-1-carboxylate	NA	NA	C24H41N3O4	435.61

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2118		Ethyl (1R,5R,6R)-5-(pentan-3-yloxy)-7-azabicyclo[4.1.0]hept-3-ene-3-carboxylate	CCC(CC)O[C@@H]([C@@H]1N[C@@H]1C2)C=C2C(OCC)=O	Impurity	DCTI-C-3073	ethyl (1R,5R,6R)-5-(pentan-3-yloxy)-7-azabicyclo[4.1.0]hept-3-ene-3-carboxylate	204255-02-7	OMP-1 Oseltamivir	C14H23NO3	253.34
2119		Oseltamivir impurity 63	O=C(C1=C[C@@H](OC(CC)CC)[C@@H](O)[C@H](NC(C)(C)C)C1)OCC	Impurity	DCTI-C-2701	ethyl (3R,4S,5R)-5-(tert-butylamino)-4-hydroxy-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	651324-04-8	NA	C18H33NO4	327.46
2120		Oseltamivir impurity 64	O=C(C1=C[C@@H](OC(CC)CC)[C@H](N(C(C)(C)C)C(C)=O)[C@@H](N(CC=C)CC=C)C1)OCC	Impurity	DCTI-C-2702	ethyl (3R,4R,5S)-4-(N-(tert-butyl)acetamido)-5-(diallylamino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	651324-07-1	NA	C26H44N2O4	448.65
2121		Oseltamivir Diamine Acid	O=C(C1=C[C@@H](OC(CC)CC)[C@H](N)[C@@H](N)C1)O.Cl	Impurity	DCTI-C-2703	(3R,4R,5S)-4,5-diamino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylic acid hydrochloride	NA	NA	C12H22N2O3 (Free base) C12H23ClN2O3 (HCl salt)	242.32 (free base) 278.78 (HCl salt)
2122		Oseltamivir citric acid Adduct	CCOC(C1=C[C@@H](OC(CC)CC)[C@H](NC(C)=O)[C@@H](NC(CC(C(O)=O)(O)CC(O)=O)=O)C1)=O	Impurity	DCTI-C-808	2-(2-(((1S,5R,6R)-6-acetamido-3-(ethoxycarbonyl)-5-(pentan-3-yloxy)cyclohex-3-en-1-yl)amino)-2-oxoethyl)-2-hydroxysuccinic acid	2738248-86-5	NA	$C_{22}H_{34}N_2O_{10}$	486.52

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2123		Oseltamivir Glucose Adduct-1	OC[C@@H](O1)[C@@H](O)[C@H](O)[C@@H](O)[C@@H]1N[C@H]([C@H]2NC(C)=O)CC(C(OCC)=O)=C[C@H]2OC(CC)CC	impurity	DCTI-C-1202	ethyl (3R,4R,5S)-4-acetamido-3-(pentan-3-yloxy)-5-(((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)amino)cyclohex-1-ene-1-carboxylate	NA	NA	$C_{22}H_{38}N_2O_9$	474.55
2124		Oseltamivir Citric Acid Adduct-2	CCC(O[C@@H]1C=C(C(OCC)=O)C[C@H](NC(C(CC(O)=O)(O)CC(O)=O)=O)[C@H]1NC(C)=O)CC	Impurity	DCTI-C-1502	3-(((1S,5R,6R)-6-acetamido-3-(ethoxy carbonyl)-5-(pentan-3-yloxy)cyclo hex-3-en-1-yl) carbamoyl)-3-hydroxypentanedioic acid	2738248-87-6	NA	$C_{22}H_{34}N_2O_{10}$	486.52
2125		Oseltamivir impurity 28	O=C(C1=C[C@@H](OC(CC)CC)[C@H](NC(C)(C)C)[C@@H](N(CC=C)CC=C)C1)OCC	Impurity	DCTI-C-3410	ethyl (3R,4R,5S)-4-(tert-butylamino)-5-(diallylamino)-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate	NA	NA	C24H42N2O3	406.61
2126		Osimertinib N-Oxide	CN(CC[N+](C)([O-])C)C(C(NC(C=C)=O)=C1)=CC(OC)=C1NC2=NC=CC(C3=CN(C)C4=CC=CC=C43)=N2	Metabolite	DCTI-C-154	2-((2-acrylamido-5-methoxy-4-((4-(1-methyl-1H-indol-3-yl)pyrimidin-2-yl)amino)phenyl)(methyl)amino)-N,N-dimethylethan-1-amine oxide	1975982-94-5	Osimertinib Impurity M	C28H33N7O3	515.62
2127		Osimertinib N,N'-Dioxide	C[N+](CC[N+](C)([O-])C)([O-])C(C(NC(C=C)=O)=C1)=CC(OC)=C1NC2=NC=CC(C3=CN(C)C4=CC=CC=C43)=N2	Metabolite	DCTI-C-155	N1-(2-acrylamido-5-methoxy-4-((4-(1-methyl-1H-indol-3-yl)pyrimidin-2-yl)amino)phenyl)-N1,N2,N2-trimethylethane-1,2-diamine dioxide	NA	Osimertinib Impurity Q	C28H33N7O4	531.62
2128		Osimertinib Impurity N	CN(CCN(C)C)C(C(NC(C=C)=O)=C1)=CC(OC)=C1N(C(C=C)=O)C2=NC=CC(C3=CN(C)C4=CC=CC=C43)=N2	Impurity	DCTI-C-156	N-(5-acrylamido-4-((2-(dimethylamino)ethyl)(methyl)amino)-2-methoxyphenyl)-N-(4-(1-methyl-1H-indol-3-yl)pyrimidin-2-yl)acrylamide	1932710-29-6	NA	C31H35N7O3	553.67

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2129	**Osimertinib**	Osimertinib Impurity-I	NC1=CC(NC2=NC=CC(C3=CN(C)C4=CC=CC=C43)=N2)=C(OC)C=C1N(C)C	Impurity	DCTI-C-629	5-methoxy-N1,N1-dimethyl-N4-(4-(1-methyl-1H-indol-3-yl)pyrimidin-2-yl)benzene-1,2,4-triamine	1801616-92-1	AZD9291 Impurity-I	C22H24N6O	388.48
2130		Osimertinib Impurity-J	CN(C)C(C(N(=O)=O)=C1)=CC(OC)=C1NC2=NC=CC(C3=CN(C)C4=CC=CC=C43)=N2	Impurity	DCTI-C-630	2-methoxy-N4,N4-dimethyl-N1-(4-(1-methyl-1H-indol-3-yl)pyrimidin-2-yl)-5-nitrobenzene-1,4-diamine	1820891-36-8	AZD9291 Impurity-J	C22H22N6O3	418.46
2131		Osimertinib N desmethyl impurity	C=CC(NC1=CC(NC2=NC=CC(C3=CN(C4=C3C=CC=C4)C)=N2)=C(C=C1N(CCNC)C)OC)=O.Cl	Impurity	DCTI-C-2691	N-(4-methoxy-2-(methyl(2-(methylamino) ethyl)amino)-5-((4-(1-methyl-1H-indol-3-yl)pyrimidin-2-yl)amino)phenyl)acrylamide hydrochloride	2309762-40-9	Osimertinib N desmethyl impurity	C27H32ClN7O2 (HCl salt); C27H31N7O2 (Free Base)	522.05 (HCl salt); 485.59 (Free Base)
2132	**Oteseconazole**	(S)-Oteseconazole	O[C@](C1=CC=C(C=C1F)F)(C(F)(F)F)CN4N=NN=C4	Impurity	DCTI-C-3672	(S)-2-(2,4-difluorophenyl)-1,1-difluoro-3-(1H-tetrazol-1-yl)-1-(5-(4-(2,2,2-trifluoroethoxy)phenyl)pyridin-2-yl)propan-2-ol	1446515-60-1	Oteseconazole Enantiomer.	C23H16F7N5O2	527.4
2133		Oxcarbazepine EP Impurity C	O=C1C2=C(C=CC=C2)NC3=C(C=CC=C3)C1	impurity	DCTI-C-1399	5,11-dihydro-10H-dibenzo[b,f]azepin-10-one	21737-58-6	USP Oxcarbazepine Related compound E; 10-Keto-iminodibenzyl; Dibenzazepinone	C14H11NO	209.25
2134	**Oxcarbazepine**	Oxcarbazepine EP Impurity E	C12=CC=CC=C1C=CC3=C(C=CC=C3)N2	impurity	DCTI-C-1400	5H-dibenzo[b,f]azepine	256-96-2	Dibenzazepine; Iminostilbene; NSC 123458; RP 9989; Carbamazepine EP Impurity D	C14H11N	193.25

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2135		Oxcarbazepine EP Impurity H	COC1=CC(C=CC=C2)=C2NC3=C1C=CC=C3	impurity	DCTI-C-1401	10-methoxy-5H-dibenzo[b,f]azepine	4698-11-7	10-Methoxy-2,2'-iminostilbene, 10-Methoxyiminostilbene	C15H13NO	223.28
2136	Oxybutynin	USP Oxybutynin RC B	OC(C1CCCCC1)(C(OC)=O)C2=CC=CC=C2	impurity	DCTI-C-1615	methyl 2-cyclohexyl-2-hydroxy-2-phenylacetate	NA	Oxybutynin USP RC B	C15H20O3	248.32
2137		Oxybutynin-N-Subsituted Allyl Impurity	OC(C1CCCCC1)(C(OCC#CCN(CC(COC(C(C2=CC=CC=C2)(O)C3CCCCC3)=O)=C)CC)=O)C4=CC=CC=C4.O=C(O)/C=C/C(O)=O	impurity	DCTI-C-1617	2-(((4-(2-cyclohexyl-2-hydroxy-2-phenylacetoxy)but-2-yn-1-yl)(ethyl)amino)methyl)allyl 2-cyclohexyl-2-hydroxy-2-phenylacetate fumarate	NA	N-substituted allyl oxybutynin impurity, oxybutynin impurity RRT at 2.9	C38H49NO6 (free base) C42H53NO10 (fumarate salt)	615.81 9free base) 731.88 (fumarate salt)
2138		R-Oxybutynin	O=C([C@](C1=CC=CC=C1)(C2CCCCC2)O)OCC#CCN(CC)CC.Cl	impurity	DCTI-C-2137	4-(diethylamino)but-2-yn-1-yl (R)-2-cyclohexyl-2-hydroxy-2-phenylacetate hydrochloride	119618-21-2 (free acid)	NA	C22H31NO3 (Free Base) C22H32ClNO3 (HCl Salt)	357.49 (Free Base) 393.95 (HCl Salt)
2139		S-Oxybutynin	O=C([C@@](C1=CC=CC=C1)(C2CCCCC2)O)OCC#CCN(CC)CC.Cl	impurity	DCTI-C-2138	4-(diethylamino)but-2-yn-1-yl(S)-2-cyclohexyl-2-hydroxy-2-phenylacetate hydrochloride	119618-22-3 (free acid)	NA	C22H31NO3 (Free Base) C22H32ClNO3 (HCl Salt)	357.49 (Free Base) 393.95 (HCl Salt)
2140		Oxybutynin USP related Compound A	OC(C1CCCCC1)(C(O)=O)C2=CC=CC=C2	impurity	DCTI-C-1612	2-cyclohexyl-2-hydroxy-2-phenylacetic acid	NA	(RS)-2-cyclohexyl-2-hydroxy-2-phenylacetic acid (phenylcyclohexylglycolic acid); Oxybutynin EP Impurity D	C14H18O3	234.3

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2141		Desethyl Oxybutynin Hydrochloride	O=C(C(C1=CC=CC=C1)(C2CCCCC2)O)OCC#CCN CC.Cl	Metabolite	DCTI-C-1618	4-(ethylamino)but-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate hydrochloride	NA	Rac-Desethyl Oxybutynin Hydrochloride	(Free base): C20H27NO3 (Hydrochloride salt): C20H28ClNO3	(Free base): 329.4 (Hydrochloride salt): 365.9
2142		Ethyl propyl analog of Oxybutynin Chloride	OC(C1CCCCC1)(C(OCC#CCN(CC)CCC)=O)C2=C C=CC=C2.Cl	Impurity	DCTI-C-2314	4-(ethyl(propyl)amino)but-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate	1215677-72-7	4-(Ethylpropylamino)-2-butyn-1-yl α-cyclohexyl-α-hydroxybenzeneacetate	C23H33NO3 (Free Base) C23H34ClNO3 (HCl Salt)	371.52 (Free Base) 407.98 (HCl Salt)
2143		Diphenyl analog of Oxybutynin Chloride	OC(C1=CC=CC=C1)(C(OCC#CCN(CC)CC)=O)C2 =CC=CC=C2.Cl	Impurity	DCTI-C-2315	4-(diethylamino)but-2-yn-1-yl 2-hydroxy-2,2-diphenylacetate	14943-53-4 (Free base)	α-Descyclohexyl-α-phenyl Oxybutynin, Oxybutynin EP Impurity B; Benzilic Acid 4-(Diethylamino)-2-butynyl Ester	Free Base: C22H25NO3 ; HCl Salt: C22H26ClNO3	Free Base: 351.45 ; HCl Salt: 387.90
2144		Oxybutynin Related Compound C Hydrochloride	OC(C1CCCCC1)(C(OCC#CCN(CC)C)=O)C2=CC= CC=C2.Cl	Impurity	DCTI-C-2316	4-(ethyl(methyl)amino)but-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate	1199574-70-3 (Free Base)	Oxybutynin EP Impurity C	C21H29NO3 (Free Base) C21H30ClNO3 (HCl salt)	343.47 (Free Base) 379.93 (HCl salt)
2145	**Oxytetracycline**	α-ApoOxytetracycline	OC1=CC=CC2=C1C(O)=C3C([C@](C@@]4([H])[C@H](N(C)C)C(O)=C(C(N)=O)C([C@H]4O)=O)([H])OC3=O)=C2C	Impurity	DCTI-C-3032	(3S,4S,5S)-4-((R)-4,5-dihydroxy-9-methyl-3-oxo-1,3-dihydronaphtho[2,3-c]furan-1-yl)-3-(dimethylamino)-2,5-dihydroxy-6-oxocyclohex-1-ene-1-carboxamide	18695-01-7	Oxytetracycline EP impurity D	C22H22N2O8	442.42
2146	**Ozanimod**	Ozanimod R Isomer	N#CC1=CC(C2=NC(C3=C(C4=CC=C3)CC[C@H] 4NCCO)=NO2)=CC=C1OC(C)C.Cl	Impurity	DCTI-C-2885	(R)-5-(3-(1-((2-hydroxyethyl)amino)-2,3-dihydro-1H-in den-4-yl)-1,2,4-oxadiazol-5-yl)-2-isopropoxybenzonitrile Hydrochloride	1306760-86-0	(R)-Ozanimod	C23H24N4O3 (Free Base); C23H24N4O3.HCl (HCl Salt)	404.17 (Free Base); 440.93 (HCl Salt)
2147		Ozanimod impurity	OCCN(CC(O)=O)[C@@H]1C2=CC=CC(C3=NOC (C4=CC(C#N)=C(C=C4)OC(C)C)=N3)=C2CC1	Impurity	DCTI-C-3405	(S)-N-(4-(5-(3-cyano-4-isopropoxyphenyl)-1,2,4-oxadiazol-3-yl)-2,3-dihydro-1H-inden-1-yl)-N-(2-hydroxyethyl)glycine	NA	Ozanimod acetic acid impurity	C25H26N4O5	462.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2148	Palonosetron	3-hydroxy-2-((S)-quinuclidin-3-yl)-2,3,3a,4,5,6-hexahydro-1H-benzo[de]isoquinolin-1-one - Oxalate Salt	[H][C@@]1(N2C(C3=CC=CC4=C3C(C2O)CCC4)=O)CN5CCC1CC5.OC(C(O)=O)=O	Metabolite	DCTI-C-738	3-hydroxy-2-((S)-quinuclidin-3-yl)-2,3,3a,4,5,6-hexahydro-1H-benzo[de]isoquinolin-1-one oxalate	NA	Palonosetron impurity	C21H26N2O6 (Salt) C19H24N2O2 (Free base)	402.45 (Salt) 312.41 (Free base)
2149		Palonosetron Related compound E	O=C1N(C=C2C3=C1C=CC=C3CCC2)[C@H]4C5CCN(C4)CC5	impurity	DCTI-C-1687	(S)-2-(quinuclidin-3-yl)-2,4,5,6-tetrahydro-1H-benzo[de]isoquinolin-1-one	135729-56-5	Palonosetron-3-ene ; Palonosetron Related Compound E USP	C19H22N2O	294.40
2150		Palonosetron EP Impurity A	N1([C@H]2C3CCN(C2)CC3)CC4=CC=CC(CCC5)=C4[C@H]5C1	impurity	DCTI-C-2095	(S)-2-((S)-quinuclidin-3-yl)-2,3,3a,4,5,6-hexahydro-1H-benzo[de]isoquinoline	NA	Palonosetron Impurity 15; Palonosetron Impurity A;	C19H26N2	282.43
2151		Palonosetron Dehydro PAS-2	O=C(N[C@@H]1CN2CCC1CC2)C3=C4C(CCC=C4)=CC=C3.Cl	impurity	DCTI-C-1122	(S)-N-(quinuclidin-3-yl)-5,6-dihydronaphthalene-1-carboxamide hydrochloride	1227162-75-5	N-[(S)-1-Azabicyclo[2.2.2]oct-3-yl]-5,6-dihydro-1-naphthalene carboxamide hydrochloride	C18H22N2O (Free Base) C18H23ClN2O (HCl Salt)	282.39 (Free Base) 318.85 (HCl Salt)
2152		PBC Amine nitro impurity	O=C(OC(C)(C)C)N(CC1)CCN1C2=CC=CN=C2[N+]([O-])=O	Impurity	DCTI-C-451	tert-butyl 4-(2-nitropyridin-3-yl)piperazine-1-carboxylate	NA	NA	C14H20N4O4	308.34
2153		6-Desacetyl 6-Bromopalbociclib	O=C1N(C2CCCC2)C3=NC(NC4=CC=C(N5CCNCC5)C=N4)=NC=C3C(C)=C1Br	Impurity	DCTI-C-1538	6-bromo-8-cyclopentyl-5-methyl-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)pyrido[2,3-d]pyrimidin-7(8H)-one	851067-56-6	Palbociclib Impurity F	C22H26BrN7O	484.40

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2154		Palbociclib Impurity 5	CC(C1=CN=C(N(C(OC(C)(C)C)=O)C2=NC=C(NCCN(C(OC(C)(C)C)=O)C(OC(C)(C)C)=O)C=C2)N=C1N3C4CCCC4)=C(Br)C3=O	impurity	DCTI-C-2116	tert-butyl (2-((6-((6-bromo-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)(tert-butoxycarbonyl)amino)pyridin-3-yl)amino)ethyl)(tert-butoxy carbonyl)carbamate	NA	Palbociclib Tri-Boc impurity.	C35H48BrN7O7	758.72
2155		Palbociclib Impurity 6	CC(C1=CN=C(NC2=NC=C(NCCN)C=C2)N=C1N3C4CCCC4)=C(C(OCCCC)=C)C3=O	impurity	DCTI-C-2113	2-((5-((2-aminoethyl)amino)pyridin-2-yl)amino)-6-(1-butoxyvinyl)-8-cyclopentyl-5-methylpyrido[2,3-d]pyrimidin-7(8H)-one.	NA	NA	C26H35N7O2	477.61
2156		Palbociclib Impurity-3	O=C1N(C2CCCC2)C3=C(C(C)=C1Br)C=NC(NC4=CC=C(NCCN)C=N4)=N3.Cl	impurity	DCTI-C-2114	2-((5-((2-aminoethyl)amino)pyridin-2-yl)amino)-6-bromo-8-cyclopentyl-5-methylpyrido[2,3-d]pyrimidin-7(8H)-one hydrochloride	NA	NA	C20H24BrN7O(free base) C20H25BrClN7O (HCl salt)	458.36(free base) 494.82(HCl salt)
2157		Palbociclib Chloro Bromo Impurity	O=C1C(Br)=C(C)C2=CN=C(Cl)N=C2N1C3CCCC3	impurity	DCTI-C-2115	6-Bromo-2-chloro-8-cyclopentyl-5-methylpyrido[2,3-d]pyrimidin-7(8H)-one	1016636-76-2	NA	C13H13BrClN3O	342.62
2158		Palbociclib 2-Hydroxy acetyl impurity	OC1=NC=C(C(C)=C(C(C)=O)C(N2C3CCCC3)=O)C2=N1	impurity	DCTI-C-2117	6-acetyl-8-cyclopentyl-2-hydroxy-5-methylpyrido[2,3-d]pyrimidin-7(8H)-one	2172256-78-7	6-acetyl-8-cyclopentyl-5-; Palbociclib Impurity I; Pyrido[2,3-d]pyrimidine-2,7(1H,8H)-dione, 6-acetyl-8-cyclopentyl-5-methyl-; Methylpyrido[2,3-d]pyrimidine-2,7(3H,8H)-dione	C15H17N3O3	287.32
2159		Palbociclib Impurity-7	CC(C1=CN=C(NC2=NC=C(NCCNC(OC(C)(C)C)=O)C=C2)N=C1N3C4CCCC4)=C(C(OCCCC)=C)C3=O	impurity	DCTI-C-2118	tert-butyl(2-((6-((6-(1-butoxyvinyl)-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)amino)ethyl)carbamate	NA	NA	C31H43N7O4	577.73

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2160		Palbociclib Impurity-1	CC(C1=CN=C(N(C(OC(C)(C)C)=O)C2=NC=C(NCCNC(OC(C)(C)C)=O)C=C2)N=C1N3C4CCCC4)=C(Br)C3=O	impurity	DCTI-C-2119	tert-butyl(6-bromo-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyramidi n-2-yl)(5-((2-((tert-butoxycarbonyl)amino)ethyl)amino)pyridin-2-yl)carbamate	NA	Palbociclib-diBoc impurity	C30H40BrN7O5	658.6
2161		Palbociclib Impurity-4	CC(C1=CN=C(NC2=NC=C(NCCNC(OC(C)(C)C)=O)C=C2)N=C1N3C4CCCC4)=C(Br)C3=O	impurity	DCTI-C-2120	tert-butyl (2-((6-((6-bromo-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrid o[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)amino)ethyl)carbamate	NA	Palbociclib MonoBoc impurity	C25H32BrN7O3	558.48
2162		Palbociclib Impurity-2	CC(C1=CN=C(N(C(OC(C)(C)C)=O)C2=NC=C(NCCNC(OC(C)(C)C)=O)C=C2)N=C1N3C4CCCC4)=C(C(OCCCC)=C)C3=O	impurity	DCTI-C-2121	tert-butyl (5-((2-((tert-butoxycarbonyl)amino)ethyl)amino)pyridin-2-yl)(6-(1-butoxyvinyl)-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl) carbamate	NA	NA	C36H51N7O6	677.85
2163		Palbociclib Impurity 8	CC(C1=CN=C(N(C(OC(C)(C)C)=O)C2=NC=C(NCCN(C(OC(C)(C)C)=O)C(OC(C)(C)C)=O)C=C2)N=C1N3C4CCCC4)=C(C(OCCCC)=C)C3=O	impurity	DCTI-C-2122	tert-butyl (tert-butoxycarbonyl)(2-((6-((tert-butoxycarbonyl)(6-(1-butoxyvinyl)-8-cycl opentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl) amino)ethyl)carbamate	NA	NA	C41H59N7O8	777.96
2164		Palbociclib-Regio isomer impurity	O=C1N(C2CCCC2)C3=NC(NC4=CC=C(N5CCNCC5)C=N4)=NC=C3C(C)=C1CC=O.O=CC(F)(F)F	Impurity	DCTI-C-1540	2-(8-cyclopentyl-5-methyl-7-oxo-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)-7,8-dihydropyrido [2,3-d]pyrimidin-6-yl)acetaldehyde 2,2,2-trifluoroacetate	NA	Palbociclib Impurity 9; Palbociclib aldehyde impurity; Palbociclib Impurity B	C24H29N7O2 (Free Base) C26H29F3N7O3 (TFA Salt)	447.54 (Free Base) 560.56(TFA Salt)
2165		PBC Amine Isomer Impurity	NC1=NC=CC=C1N2CCN(C(OC(C)(C)C)=O)CC2	Impurity	DCTI-C-452	tert-butyl 4-(2-aminopyridin-3-yl)piperazine-1-carboxylate	1023594-49-1	PBC Amine Impurity	C14H22N4O2	278.36

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2166		6-Desacetyl Palbociclib	O=C1C=C(C)C2=CN=C(NC3=NC=C(N4CCNCC4)C=C3)N=C2N1C5CCCC5	impurity	DCTI-C-1541	8-cyclopentyl-5-methyl-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)pyrido[2,3-d]pyrimidin-7(8H)-one	571190-22-2	NA	C22H27N7O	405.51
2167		Desoxo-Palbociclib	O=C1N(C2CCCC2)C3=NC(NC4=CC=C(N5CCNCC5)C=N4)=NC=C3C(C)=C1C=C	impurity	DCTI-C-1539	8-cyclopentyl-5-methyl-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)-6-vinylpyrido[2,3-d]pyrimidin-7(8H)-one	2204863-06-7	NA	C24H29N7O	431.54
2168		Palbociclib-N-Alkylation Impurity	CC(C1=CN=C(NC2=NC=C(NCCN)C=C2)N=C1N3C4CCCC4)=C(C(C)=O)C3=O.Cl	Metabolite	DCTI-C-698	6-acetyl-2-((5-((2-aminoethyl)amino)pyridin-2-yl)amino)-8-cyclopentyl-5-methylpyrido[2,3-d]pyrimidin-7(8H)-one hydrochloride	NA	NA	C22H28ClN7O2 (HCl Salt) C22H27N7O2 (Free base)	457.96 (HCl Salt) 421.51 (Free base)
2169	**Palbociclib**	Palbociclib-N-Formyl Impurity	CC(C1=CN=C(NC2=NC=C(N3CCN(C([H])=O)CC3)C=C2)N=C1N4C5CCCC5)=C(C(C)=O)C4=O	Metabolite	DCTI-C-699	4-(6-((6-acetyl-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-carbaldehyde	2174002-16-3	N-Formyl Palbociclib	C25H29N7O3	475.55

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2170		Palbociclib 2-Oxoethane-1-sulfonic acid	CC(C1=CN=C(NC2=NC=C(N3CCNCC3)C=C2)N=C1N4C5CCCC5)=C(C(CS(=O)(O)=O)=O)C4=O	Metabolite	DCTI-C-700	2-(8-cyclopentyl-5-methyl-7-oxo-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)-7,8-dihydropyrido[2,3-d]pyrimidin-6-yl)-2-oxoethane-1-sulfonic acid	NA	NA	C24H29N7O5S	527.6
2171		Palbociclib Glycosamine	CC(C1=CN=C(N=C1N2C3CCCC3)NC4=CC=C(N5CCN(C6[C@H](O)[C@@H](O)[C@H](O[C@@H]7O[C@H](CO)[C@H](O)[C@H](O)[C@H]7O)[C@@H](CO)O6)CC5)C=N4)=C(C(C)=O)C2=O	Metabolite	DCTI-C-701	6-acetyl-8-cyclopentyl-2-((5-(4-((3R,4R,5S,6R)-3,4-dihydroxy-6-(hydroxymethyl)-5-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)piperazin-1-yl)pyridin-2-yl)amino)-5-methylpyrido[2,3-d]pyrimidin-7(8H)-one	NA	Lactose adduct-1	C36H49N7O12	771.83
2172		6-desacetyl-N-Boc-Palbociclib	O=C1N(C2CCCC2)C3=NC(NC4=CC=C(N5CCN(CC5)C(OC(C)(C)C)=O)C=N4)=NC=C3C(C)=C1	impurity	DCTI-C-1402	tert-butyl 4-(6-((8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-carboxylate	571189-65-6	Palbociclib Impurity 15	C27H35N7O3	505.62
2173		Palbociclib Sulphonation Impurity	CC(C(C=N1)=C(N2C3CCCC3)N=C1NC(N=C4)=CC=C4N5CCN(S(O)(=O)=O)CC5)=C(C(C)=O)C2=O	Metabolite	DCTI-C-724	4-(6-((6-acetyl-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-sulfonic acid	2204863-10-3	Palbociclib Sulfamic Acid	C24H29N7O5S	527.6

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2174		Palbociclib N-Hydroxy Piperazine	CC(C1=CN=C(NC2=CC=C(N3CCN(O)CC3)C=N2)N=C1N4C5CCCC5)=C(C(C)=O)C4=O	Metabolite	DCTI-C-2644	6-acetyl-8-cyclopentyl-2-((5-(4-hydroxypiperazin-1-yl)pyridin-2-yl)amino)-5-methyl pyrido[2,3-d]pyrimidin-7(8H)-one	2231085-26-8	Palbociclib N-oxide 1, Palbociclib Piperazine N-oxide	C24H29N7O3	463.54
2175		Palbociclib Impurity C	O=C1N(C2CCCCC2)C3=C(C(C)=C1C(C)=O)C=NC(NC4=CC=C(N5CCNCC5)C=N4)=N3	Impurity	DCTI-C-2680	6-acetyl-8-cyclohexyl-5-methyl-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)pyrido[2,3-d]pyrimidin-7(8H)-one	2624141-94-0	Palbociclib cyclohexyl impurity	C25H31N7O2	461.57
2176		Palbociclib Nitroso Impurity	O=C1C(C(C)=O)=C(C)C2=CN=C(NC3=NC=C(N4CCN(N=O)CC4)C=C3)N=C2N1C5CCCC5	NDSRI	DCTI-C-2368	6-acetyl-8-cyclopentyl-5-methyl-2-((5-(4-nitrosopiperazin-1-yl)pyridin-2-yl)amino)pyrido[2,3-d]pyrimidin-7(8H)-one	NA	NA	C24H28N8O3	476.54
2177		Palbociclib N-boc Allyl Analog	O=C1N(C2CCCC2)C3=NC(NC4=NC=C(N5CCN(C(OC(C)(C)C)=O)CC5)C=C4)=NC=C3C(C)=C1C(OCCCC)=C	Impurity	DCTI-C-3002	tert-butyl 4-(6-((6-(1-butoxyvinyl)-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-carboxylate	866084-31-3	NA	C33H45N7O4	603.77
2178		6-acetyl-8-cyclopentyl-5-impurity of Palbociclib	O=C1N(C2CCCC2)C3=NC(NC4=CC=C(N5CCN(C)CC5)C=N4)=NC=C3C(C)=C1C(C)=O	Impurity	DCTI-C-3113	6-acetyl-8-cyclopentyl-5-methyl-2-((5-(4-methyl piperazin-1-yl)pyridin-2-yl)amino)pyrido [2,3-d] pyrimidin-7(8H)-one	571189-51-0	N-Methyl Palbociclib	C25H31N7O2	461.57
2179		Piperazine-2,3-dione Palbociclib Impurity	O=C1N(C2=CC=C(NC3=NC=C(C(C)=C(C(C)=O)C(N4C5CCCC5)=O)C4=N3)N=C2)CCNC1=O	Impurity	DCTI-C-2369	1-(6-((6-acetyl-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-2,3-dione	NA	NA	C24H25N7O4	475.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2180		Palbociclib-2,6-bis-aminopyridine impurity	O=C1C(NC2=NC=C(N3CCNCC3)C=C2)=C(C)C4=CN=C(NC5=NC=C(N6CCNCC6)C=C5)N=C4N1C7CCCC7	Impurity	DCTI-C-2370	8-cyclopentyl-5-methyl-2,6-bis((5-(piperazin-1-yl) pyridin-2-yl) amino) pyrido[2,3-d] pyrimidin-7(8H)-one	2458234-37-0	Palbociclib Impurity 21	C31H39N11O	581.73
2181		Palbociclib N-Boc Impurity	O=C(N1CCN(C2=CC=C(NC3=NC=C(C(C)=C(C(C)=O)C(N4C5CCCC5)=O)C4=N3)N=C2)CC1)OC(C)(C)C	Impurity	DCTI-C-2371	tert-butyl4-(6-((6-acetyl-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d] pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-carboxylate	1651214-74-2	NA	C29H37N7O4	547.66
2182		Palbociclib Impurity A	NC1=NC=C(N2CCNCC2)C=C1.[H]Cl	Impurity	DCTI-C-2372	5-(piperazin-1-yl)pyridin-2-amine hydrochloride	1956322-95-4 (HCl salt); 1082876-26-3(Free Base)	NA	Free Base: C9H14N4 ; HCl Salt: C9H15ClN4	Free Base: 178.24 ; HCl Salt: 214.70
2183		Palbociclib Pyridine N-Oxide HCl Salt	O=C1C(C(C)=O)=C(C)C2=CN=C(NC3=CC=C(N4CCNCC4)C=[N+]3[O-])N=C2N1C5CCCC5.[H]Cl	Impurity	DCTI-C-2373	2-((6-acetyl-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl) amino)-5-(piperazin-1-yl)pyridine 1-oxide hydrochloride	2098673-40-4 (Free Base) ; 2098673-44-8 (HCl Salt)	Palbociclib Pyridine N-Oxide	C24H29N7O3 (Free Base); C24H30ClN7O3 (HCl Salt)	463.54 (Free base) ; 500.0 (HCl Salt)
2184		tert-butyl 4-(6-((8-cyclopentyl-5-methyl-7-oxo-6-vinyl-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-carboxylate	O=C(N1CCN(C2=CC=C(NC3=NC=C(C(C)=C(C=COCCCC)C(N4C5CCCC5)=O)C4=N3)N=C2)CC1)OC(C)(C)C	Impurity	DCTI-C-2374	1,1-Dimethylethyl 4-[6-[[6-(2-butoxyethenyl)-8-cyclopentyl-7,8-dihydro-5-methyl-7-oxopyrido [2,3-d]pyrimidin-2-yl]amino]-3-pyridinyl]-1-piperazinecarboxylate	827022-35-5	Palbociclib Impurity 7; tert-butyl 4-(6-((6-(2-butoxyvinyl)-8-cyclopentyl-5-methyl-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine-1-carboxylate	C33H45N7O4	603.77

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2185	Paroxetine	Paroxetine Hemihydrate EP impurity-F	FC(C=C1)=CC=C1C2CCNCC2COC(C=C(OCO3)C3=C4)=C4CC5=C(OCC6C(C7=CC=C(F)C=C7)CCNC6)C=C8C(OCO8)=C5.[.2HCl]	Impurity	DCTI-C-501	bis(6-((4-(4-fluorophenyl)piperidin-3-yl)methoxy)benzo[d][1,3]dioxol-5-yl)methane dihydrochloride	06968-05-2 (Free base)	NA	C39H40F2N2O6 (Free Base) C39H42Cl2F2N2O6 (HCl Salt)	670.75 (Free Base) 743.67 (HCl Salt)
2186		((3R,4R)-4-(4-fluorophenyl)-1-methylpiperidin-3-yl)methanol	OC[C@H]1CN(C)CC[C@H]1C2=CC=C(F)C=C2	Impurity	DCTI-C-645	((3R,4R)-4-(4-fluorophenyl)-1-methylpiperidin-3-yl)methanol	100332-12-5	Cis Paroxetine N-Methyl Impurity RR isomer	C13H18FNO	223.29
2187		((3S,4S)-4-(4-fluorophenyl)-1-methylpiperidin-3-yl)methanol	OC[C@@H]1CN(C)CC[C@@H]1C2=CC=C(F)C=C2	Impurity	DCTI-C-646	((3S,4S)-4-(4-fluorophenyl)-1-methylpiperidin-3-yl)methanol	100332-20-5	Cis Paroxetine N-Methyl Impurity SS isomer	C13H18FNO	223.29
2188		N-Nitroso Paroxetine	FC(C=C1)=CC=C1[C@@H]2CCN(N=O)C[C@H]2COC3=CC(OCO4)=C4C=C3	NDSRI	DCTI-C-3065	(3S,4R)-3-((benzo[d][1,3]dioxol-5-yloxy)methyl)-4-(4-fluorophenyl)-1-nitrosopiperidine	2361294-43-9	NA	C19H19FN2O4	358.37
2189		N-(3-((allyloxy)methyl)-4-(2-chloroethoxy)phenyl)-4-(3-((allyloxy)methyl)phenyl)pyrimidin-2-amine	ClCCOC(C(COCC=C)=C1)=CC=C1NC2=NC=CC(C3=CC(COCC=C)=CC=C3)=N2	Impurity	DCTI-C-3308	N-(3-((allyloxy)methyl)-4-(2-chloroethoxy)phenyl)-4-(3-((allyloxy)methyl)phenyl)pyrimidin-2-amine	NA	Pacritinib Impurity	C26H28ClN3O3	465.98

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2190	Pacritinib	4-(3-((allyloxy)methyl)phenyl)-2-chloropyrimidine	ClC1=NC=CC(C2=CC=CC(COCC=C)=C2)=N1	Impurity	DCTI-C-3307	4-(3-((allyloxy)methyl)phenyl)-2-chloropyrimidine	937273-29-5	NA	C14H13ClN2O	260.72
2191		Pacritinib Chloro Impurity	ClCCOC1=CC=C2NC3=NC=CC(C4=CC(COC/C=C/COCC1=C2)=CC=C4)=N3	Impurity	DCTI-C-3306	(E)-44-(2-chloroethoxy)-6,11-dioxa-3-aza-2(4,2)-pyrimidina-1,4(1,3)-dibenzenacyclododecaphan-8-ene	NA	NA	C24H24ClN3O3	437.92
2192		Pacritinib M1 Metabolite WS	O=C1CCCN1CCOC2=CC=C3NC4=NC=CC(C5=CC(COC/C=C/COCC2=C3)=CC=C5)=N4	Metabolite	DCTI-C-3805	(E)-1-(2-(6,11-dioxa-3-aza-2(4,2)-pyrimidina-1,4(1,3)-dibenzenacyclododecaphan-8-en-44-yloxy)ethyl)pyrrolidin-2-one	1312603-77-2	NA	C28H30N4O4	486.57
2193	Paliperidone	Paliperidone hydroxyl benzoyl analog	O=C1C(CCN2CCC(C(C3=CC=C(F)C=C3O)=O)CC2)=C(C)N=C4N1CCCC4O	Metabolite	DCTI-C-2649	3-(2-(4-(4-fluoro-2-hydroxybenzoyl)piperidin-1-yl)ethyl)-9-hydroxy-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-on	152542-03-5	Paliperidone Impurity 4; Paliperidone 2-Hydroxybenzoyl Impurit	C23H28FN3O4	429.49
2194		chloro impurity(paliperidone)	O=C1C(CCCl)=C(C)N=C2N1CCCC2O	Impurity	DCTI-C-2650	3-(2-chloroethyl)-9-hydroxy-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one	130049-82-0	Paliperidone Related Compound C	C11H15ClN2O2	242.7

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2195		Pazopanib Di-Indazole Impurity	CC1=C2C=CC(NC3=CC=NC(NC4=CC5=NN(C)C(C)=C5C=C4)=N3)=CC2=NN1C	Impurity	DCTI-C-1503	N2,N4-bis(2,3-dimethyl-2H-indazol-6-yl)pyrimidine-2,4-diamine	1226499-98-4	NA	C22H22N8	398.46
2196		Pazopanib Pyrimidine impurity	CC1=C2C=CC(N(C3=NC(Cl)=NC=C3)C)=CC2=NN1C	Impurity	DCTI-C-1126	N-(2-chloropyrimidin-4-yl)-N,2,3-trimethyl-2H-indazol-6-amine	444731-75-3	Pazopanib impurity; Pazopanib Intermediate I	C14H14ClN5	287.75
2197		Desmethyl Impurity of Pazopanib	CC1=C(C=C2)C(C=C2NC3=NC(NC4=CC=C(C)C(S(=O)(N)=O)=C4)=NC=C3)=NN1C.Cl	Metabolite	DCTI-C-2266	5-((4-((2,3-dimethyl-2H-indazol-6-yl)amino)pyrimidin-2-yl)amino)-2-methylbenzenesulfonamide hydrochloride	NA	N-demethyl pazopanib	C20H21N7O2S (free base) C20H22ClN7O2S (salt)	423.50 (free base) 459.95 (salt)
2198		PAZ-IMPURITY 1	CC1=C2C=CC(N(C)C3=NC(N(C4=NC(Cl)=NC=C4)C5=CC6=NN(C(C)=C6C=C5)C)=NC=C3)=CC2=NN1C	Impurity	DCTI-C-779	2,4-Pyrimidinediamine, N2-(2-chloro-4-pyrimidinyl)-N2,N4-bis(2,3-dimethyl-2H-indazol-6-yl)-N4-methyl-	1252927-44-8	Pazopanib impurity 1	C27H25ClN10	525.02
2199		PAZ-IMPURITY 2	CC1=C2C=CC(N(C)C3=NC(Cl)=CC=N3)=CC2=NN1C	Impurity	DCTI-C-780	N-(4-chloropyrimidin-2-yl)-N,2,3-trimethyl-2H-indazol-6-amine	1252927-45-9	Pazopanib impurity 2	C14H14ClN5	287.75
2200		PAZ-IMPURITY 3	CC1=C2C=CC(N(C)C3=NC(N)=NC=C3)=CC2=NN1C	Impurity	DCTI-C-781	N4-(2,3-dimethyl-2H-indazol-6-yl)-N4-methylpyrimidine-2,4-diamine	1821666-71-0	Pazopanib impurity 3	C14H16N6	268.32

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2201	Pazopanib	PAZ-IMPURITY 4	O=S(N)(C1=C(C)C=CC(NC2=NC(NC)=CC=N2)=C1)=O.Cl	Impurity	DCTI-C-782	2-methyl-5-((4-(methylamino)pyrimidin-2-yl)amino)benzenesulfonamide hydrochloride	1821666-70-9 (Free base)	Pazopanib impurity 4	C12H16ClN5O2S (HCl Salt) C12H15N5O2S (Free base)	329.80 (HCl Salt) 293.35 (Free base)
2202		Pazopanib Dimer	CC1=CC=C(C=C1S(NS(=O)(C2=CC(NC3=NC=CC(N(C)C4=CC5=NN(C)C(C)=C5C=C4)=N3)=CC=C2C)=O)(=O)=O)NC6=NC=CC(N(C7=CC8=NN(C(C)=C8C=C7)C)C)=N6	Impurity	DCTI-C-783	5-((4-((2,3-dimethyl-2H-indazol-6-yl)(methyl)amino)pyrimidin-2-yl)amino)-N-((5-((4-((2,3-dimethyl-2H-indazol-6-yl)(methyl)amino)pyrimidin-2-yl)amino)-2-methylphenyl)sulfonyl)-2-methylbenzenesulfonamide	2095544-42-4	NA	C42H43N13O4S2	858.01
2203		Pazopanib Impurity 9	CC1=C2C=CC(N(C)C3=NC(OC)=NC=C3)=CC2=NN1C	Impurity	DCTI-C-819	N-(2-methoxypyrimidin-4-yl)-N,2,3-trimethyl-2H-indazol-6-amine	1296888-47-5	NA	C15H17N5O	283.34
2204		N4-(2,3-dimethyl-2H-indazol-6-yl)-N2,N2,N4-trimethylpyrimidine-2,4-diamine	CC1=C2C=CC(N(C)C3=NC(N(C)C)=NC=C3)=CC2=NN1C	Impurity	DCTI-C-921	N4-(2,3-dimethyl-2H-indazol-6-yl)-N2,N2,N4-trimethylpyrimidine-2,4-diamine	1296888-46-4	Pazopanib impurity	C16H20N6	296.38
2205		N-(2-chloropyrimidin-4-yl)-2,3-dimethyl-2H-indazol-6-amine	CN1C(C)=C2C=CC(NC3=NC(Cl)=NC=C3)=CC2=N1	impurity	DCTI-C-1433	N-(2-chloropyrimidin-4-yl)-2,3-dimethyl-2H-indazol-6-amine	444731-74-2	Pazopanib Impurity	C13H12ClN5	273.72
2206		N-(4-chloropyrimidin-2-yl)-2,3-dimethyl-2H-indazol-6-amine	CN1C(C)=C2C=CC(NC3=NC(Cl)=CC=N3)=CC2=N1	impurity	DCTI-C-1434	N-(4-chloropyrimidin-2-yl)-2,3-dimethyl-2H-indazol-6-amine	1226499-97-3	Pazopanib Impurity	C13H12ClN5	273.72

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2207		Pazopanib impurity 8	O=S(O)(C1=CC(NC2=NC(N(C)C3=CC4=NN(C)C(C)=C4C=C3)=CC=N2)=CC=C1C)=O	Metabolite	DCTI-C-1231	5-((4-((2,3-dimethyl-2H-indazol-6-yl)(methyl)amino)pyrimidin-2-yl)amino)-2-methylbenzenesulfonic acid	NA	NA	C21H22N6O3S	438.51
2208		Pazopanib N-oxide (RRT-0.70)	O=S(N)(C1=C(C)C=CC(N(O)C2=NC=CC(N(C)C3=CC4=NN(C)C(C)=C4C=C3)=N2)=C1)=O	impurity	DCTI-C-962	5-((4-((2,3-dimethyl-2H-indazol-6-yl)(methyl)amino)pyrimidin-2-yl)(hydroxy)amino)-2-methylbenzenesulfonamide	NA	NA	C21H23N7O3S	453.52
2209		N2,N4-bis(2,3-dimethyl-2H-indazol-6-yl)-N4-(4-((2,3-dimethyl-2H-indazol-6-yl)amino)pyrimidin-2-yl)pyrimidine-2,4-diamine	CC1=C2C=CC(NC3=NC(N(C4=CC5=NN(C)C(C)=C5C=C4)C6=NC(NC7=CC8=NN(C)C(C)=C8C=C7)=NC=C6)=NC=C3)=CC2=NN1C	Impurity	DCTI-C-3359	N2,N4-bis(2,3-dimethyl-2H-indazol-6-yl)-N4-(4-((2,3-dimethyl-2H-indazol-6-yl)amino)pyrimidin-2-yl)pyrimidine-2,4-diamine	1226499-99-5	NA	C35H33N13	635.74
2210	**Pelubiprofen**	Pelubiprofen Trans-OH	O[C@@H]1[C@@H](CC2=CC=C(C(C)C(O)=O)C=C2)CCCC1	impurity	DCTI-C-1950	2-(4-(((1R,2S)-2-hydroxycyclohexyl)methyl)phenyl)propanoic acid-rel.	NA	Pelubiprofen trans-alcohol.	C16H22O3	262.35
2211		Pelubiprofen Cis-OH	O[C@H]1[C@@H](CC2=CC=C(C(C)C(O)=O)C=C2)CCCC1	impurity	DCTI-C-2139	2-(4-(((1R,2R)-2-hydroxycyclohexyl)methyl)phenyl)propanoic acid-rel	NA	Pelubiprofen Cis-alcohol.	C16H22O3	262.35
2212		Ketopemetrexed	NC(NC(N1)=C2C(CCC3=CC=C(C(N[C@@H](CCC(O)=O)C(O)=O)=O)C=C3)C1=O)=NC2=O	Impurity	DCTI-C-157	(4-(2-(2-amino-4,6-dioxo-4,5,6,7-tetrahydro-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-L-glutamic acid	193281-00-4	LY 338979	C20H21N5O7	443.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2213		Pemetrexed Oxidative Dimers (mixture of isomers B&C)	O=C([C@H](CCC(O[NH4])=O)NC(C1=CC=C(CCC2(C(NC(NC(N)=N3)=C2C3=O)=O)C(NC(N=C(N)N4)=C5C4=O)=C5CCC(C=C6)=CC=C6C(N[C@@H](CCC(O[NH4])=O)C(O[NH4])=O)=O)C=C1)=O)O[NH4]	impurity	DCTI-C-2267	tetra(l5-azanyl) 2,2'-((4,4'-((2,2'-diamino-4,4',6-trioxo-1,4,4',6,7,7'-hexahydro-3'H,5H-[5,6'-bipyrrolo[2,3-d]pyrimidine]-5,5'-diyl)bis(ethane-2,1-diyl))bis(benzoyl))bis(azanediyl))(2S,2'S)-diglutarate	NA	oxidative dimer, isomers 1 and 2; pemetrexed dimer (diasteromeric mixture); pemetrexed impurity B&C; Pemetrexed EP impurity B&C	C40H40N10O13 (free acid) C40H52N14O13 (ammonium salt)	868.82 (free acid) 936.94 (ammonium salt)
2214		Pemetrexed EP Impurity A	NC(N(C)C1=C2C(CCC3=CC=C(C(N[C@@H](CCC(O)=O)C(O)=O)=O)C=C3)=CN1)=NC2=O	Impurity	DCTI-C-158	(4-(2-(2-amino-1-methyl-4-oxo-4,7-dihydro-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-L-glutamic acid	869791-42-4	NA	C21H23N5O6	441.44
2215		Pemetrexed Impurity B	O=C([C@H](CCC(O[NH4])=O)NC(C1=CC=C(CC[C@]2(C(NC(NC(N)=N3)=C2C3=O)=O)C(NC(N=C(N)N4)=C5C4=O)=C5CCC(C=C6)=CC=C6C(N[C@@H](CCC(O[NH4])=O)C(O[NH4])=O)=O)C=C1)=O)O[NH4]	Impurity	DCTI-C-203	(2S,2'S)-2,2'-((4,4'-(((R)-2,2'-diamino-4,4',6-trioxo-1,4,4',6,7,7'-hexahydro-3'H,5H-[5,6'-bipyrrolo[2,3-d]pyrimidine]-5,5'-diyl)bis(ethane-2,1-diyl))bis(benzoyl))bis(azanediyl))diglutaric acid	NA	Pemetrexed-(R)-Dimer	C40H40N10O13	868.82
2216		Pemetrexed Impurity C	O=C([C@H](CCC(O[NH4])=O)NC(C1=CC=C(CC[C@@]2(C(NC(NC(N)=N3)=C2C3=O)=O)C(NC(N=C(N)N4)=C5C4=O)=C5CCC(C=C6)=CC=C6C(N[C@@H](CCC(O[NH4])=O)C(O[NH4])=O)=O)C=C1)=O)O[NH4]	Impurity	DCTI-C-204	(2S,2'S)-2,2'-((4,4'-(((S)-2,2'-diamino-4,4',6-trioxo-1,4,4',6,7,7'-hexahydro-3'H,5H-[5,6'-bipyrrolo[2,3-d]pyrimidine]-5,5'-diyl)bis(ethane-2,1-diyl))bis(benzoyl))bis(azanediyl))diglutaric acid	NA	Pemetrexed-(S)-Dimer	C40H40N10O13	868.82
2217		Pemetrexed des-glutamate	OC(C1=CC=C(CCC2=CNC(N=C(N)N3)=C2C3=O)C=C1)=O	Impurity	DCTI-C-367	4-(2-(2-amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoic acid	137281-39-1	Pemetrexed Impurity-11; Premetrexed Acid	C15H14N4O3	298.3

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2218	Pemetrexed	4-(4-hydroxybutyl) benzoic acid	OC(C1=CC=C(CCCCO)C=C1)=O	Impurity	DCTI-C-387	4-(4-hydroxybutyl)benzoic acid	58973-64-1	NA	C11H14O3	194.23
2219		methyl 4-(4-oxobutyl)benzoate	O=C(OC)C1=CC=C(CCCC=O)C=C1	Impurity	DCTI-C-388	methyl 4-(4-oxobutyl)benzoate	106200-41-3	NA	C12H14O3	206.24
2220		Pemetrexed EP Imp-E	O=C1C2=C(NC=C2CCC3=CC=C(C(N[C@@H](C(O[Na])=O)CCC(O[Na])=O)=O)C=C3)N=C(N)N1	Impurity	DCTI-C-389	sodium (3-(2-(2-amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-D-glutamate	NA	NA	C20H19N5Na2O6	471.38
2221		(RS)-4-(3-Bromo-4-oxobutyl)benzoicacid Methyl Ester	O=C(OC)C1=CC=C(CCC(Br)C=O)C=C1	Impurity	DCTI-C-416	methyl 4-(3-bromo-4-oxobutyl)benzoate	155405-79-1	NA	C12H13BrO3	285.14
2222		Tri Ethyl Ester	O=C(C1=CC=C(CCC2=CNC(N=C(N)N3)=C2C3=O)C=C1)N[C@@H](CCC(N[C@@H](CCC(OCC)=O)C(OCC)=O)=O)C(OCC)=O	Impurity	DCTI-C-417	diethyl ((S)-4-(4-(2-(2-amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzamido)-5-ethoxy-5-oxopentanoyl)-L-glutamate	1415407-84-9	NA	C31H40N6O9	640.69

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2223		PMD-Diester DMF Complex	O=C1NC(N=CN(C)C)=NC2=C1C(CCC3=CC=C(C(N[C@H](C(OCC)=O)CCC(OCC)=O)=O)C=C3)=CN2	Impurity	DCTI-C-418	diethyl (Z)-(4-(2-(2-(((dimethylamino)methylene)amino)-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-L-glutamate	1802552-05-1	NA	C27H34N6O6	538.61
2224		N-Methyl Triacid	O=C(C1=CC=C(CCC2=CNC(N(C)C(N)=N3)=C2C3=O)C=C1)N[C@@H](CCC(N[C@@H](CCC(O)=O)C(O)=O)=O)C(O)=O	Impurity	DCTI-C-442	((S)-4-(4-(2-(2-amino-1-methyl-4-oxo-4,7-dihydro-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzamido)-4-carboxybutanoyl)-L-glutamic acid	NA	NA	C26H30N6O9	570.56
2225		PMD acid Butem Impurity	O=C(OC)C1=CC=C(/C=C/CCO)C=C1	Impurity	DCTI-C-444	methyl (E/Z)-4-(4-hydroxybut-1-en-1-yl)benzoate	240407-06-1	NA	C12H14O3	206.24
2226		Pemetrexed α-Dipeptide Impurity	O=C(N[C@@H](CCC(O)=O)C(N[C@H](C(O)=O)CCC(O)=O)=O)C(C=C1)=CC=C1CCC2=CNC(N=C(N)N3)=C2C3=O	Impurity	DCTI-C-463	(4-(2-(2-amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-L-glutamyl-L-glutamic acid	883553-87-5	NA	C25H28N6O9	556.53
2227		Ring opened keto-formamide	NC1=NC(NC=O)=C(C(N1)=O)C(CCC2=CC=C(C(N[C@H](C(O)=O)CCC(O)=O)=O)C=C2)=O	Impurity	DCTI-C-464	(4-(3-(2-amino-4-formamido-6-oxo-1,6-dihydropyrimidin-5-yl)-3-oxopropyl)benzoyl)-L-glutamic acid	869791-42-4	Pemetrexed Impurity 20; Pemetrexed Seco-indolone	C20H21N5O8	459.42
2228		Alpha Hydroxy Lactams	NC1=NC(NC2=O)=C(C(N1)=O)C2(O)CCC3=CC=C(C(N[C@H](C(O)=O)CCC(O)=O)=O)C=C3	Impurity	DCTI-C-419	(4-(2-(2-amino-5-hydroxy-4,6-dioxo-4,5,6,7-tetrahydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-L-glutamic acid	1644286-36-1	Pemetrexed Impurity 24	C20H21N5O8	459.42

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2229		Ring opened keto-Amine	NC1=NC(N)=C(C(N1)=O)C(CCC2=CC=C(C(N[C@H](C(O)=O)CCC(O)=O)=O)C=C2)=O	Impurity	DCTI-C-420	(4-(3-(2,4-diamino-6-oxo-1,6-dihydropyrimidin-5-yl)-3-oxopropyl)benzoyl)-L-glutamic acid	193281-05-9	Pemetrexed Impurity 13, LY 368962	C19H21N5O7	431.41
2230		Pemetrexed EP Impurity-D	O=C(C1=CC=C(CCC2=CNC(N=C(N)N3)=C2C3=O)C=C1)N[C@@H](CCC(N[C@H](C(O)=O)CCC(O)=O)=O)C(O)=O	Impurity	DCTI-C-544	((S)-4-(4-(2-(2-amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzamido)-4-carboxybutanoyl)-L-glutamic acid	144051-68-3	NA	C25H28N6O9	556.53
2231		4-(4-oxobutyl) benzoic acid	OC(C1=CC=C(CCCC=O)C=C1)=O	Impurity	DCTI-C-588	4-(4-oxobutyl)benzoic acid	1006656-82-1	NA	C11H12O3	192.21
2232		Methyl 4-(3,3-Dibromo-4-oxobutyl) benzoate	BrC(C=O)(CCC1=CC=C(C=C1)C(OC)=O)Br	Impurity	DCTI-C-589	methyl 4-(3,3-dibromo-4-oxobutyl)benzoate	1320346-37-9	NA	C12H12Br2O3	364.03
2233		PMD acid oxidation Impurity	O=C(O)C1=CC=C(CCC(C2=C3N=C(N)NC2=O)C(N3)=O)C=C1	Impurity	DCTI-C-590	4-(2-(2-amino-4,6-dioxo-4,5,6,7-tetrahydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoic acid	193265-47-3	Pemetrexed acid oxo Impurity; Pemetrexed Impurity-16	C15H14N4O4	314.3
2234		Pemetrexed Dimethyl Ester tosylate	O=C([C@H](CCC(OC)=O)NC(C1=CC=C(CCC2=CNC(N=C(N)N3)=C2C3=O)C=C1)=O)OC.CC4=CC=C(S(O)(=O)=O)C=C4	Impurity	DCTI-C-3139	dimethyl (4-(2-(2-amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzoyl)-L-glutamate 4-methylbenzenesulfonate	1265908-56-2	N-[4-[2-(2-amino-4,7-dihydro-4-oxo-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl]- L-Glutamic acid dimethyl ester p-Toluenesulfonic acid salt	C25H25N5O6(Free base)C29H33N5O9S (PTSA salt)	455.47(free base)627.67 (PTSA salt)

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2235	**Penciclovir**	9-[4-hydroxy-3-(hydroxymethyl) butyl]-3,9-dihydro-1H-purine-2,6-dione	O=C(N1)NC2=C(N=CN2CCC(CO)CO)C1=O	impurity	DCTI-C-1160	9-(4-hydroxy-3-(hydroxymethyl)butyl)-3,9-dihydro-1H-purine-2,6-dione	108970-74-7	NA	C10H14N4O4	254.25
2236	**Pentoxifylline**	Pentoxifylline Metabolite V	CN1C=NC2=C1C(N(CCCC(O)=O)C(N2C)=O)=O	Metabolite	DCTI-C-2609	4-(3,7-dimethyl-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-1-yl) butanoic acid	08-07-6493	(1-[3-carboxypropyl]-3,7-dimethylxanthine)	C11H14N4O4	266.26
2237		Pentoxifylline Metabolite I	CN1C=NC2=C1C(N(CCCCC(O)C)C(N2C)=O)=O	Metabolite	DCTI-C-2610	1-(5-hydroxyhexyl)-3,7-dimethyl-3,7-dihydro-1H-purine-2,6-dione	07-06-6493	(1-[5-hydroxyhexyl]-3,7-dimethylxanthine)	C13H20N4O3	280.33
2238		Perindopril (S,S,S,R,S) isomer	O=C([C@H](CCC)N[C@@H](C)C(N1[C@@H](C[C@H]2CCCC[C@H]12)C(O)=O)=O)OCC	impurty	DCTI-C-1553	(2S,3aR,7aS)-1-(((S)-1-ethoxy-1-oxopentan-2-yl)-L-alanyl)octahydro-1H-indole-2-carboxylic acid	145513-31-1	NA	$C_{19}H_{32}N_2O_5$	368.47
2239		Perindopril (S,S,S,R,R) isomer	O=C([C@H](CCC)N[C@@H](C)C(N1[C@@H](C[C@H]2CCCC[C@@H]12)C(O)=O)=O)OCC	impurty	DCTI-C-1554	(2S,3aR,7aR)-1-(((S)-1-ethoxy-1-oxopentan-2-yl)-L-alanyl)octahydro-1H-indole-2-carboxylic acid	145513-32-2	NA	$C_{19}H_{32}N_2O_5$	368.47
2240		Perindopril (S,R,S,S,S) isomer	O=C([C@H](CCC)N[C@H](C)C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)=O)OCC	impurty	DCTI-C-1555	(2S,3aS,7aS)-1-(((S)-1-ethoxy-1-oxopentan-2-yl)-D-alanyl)octahydro-1H-indole-2-carboxylic acid	145513-37-7	NA	$C_{19}H_{32}N_2O_5$	368.47

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2241	Perindopril	Perindopril EP impurity G	O=C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)[C@H](C)N3C(N(C4CCCCC4)C(C3CCC)=O)=O	impurty	DCTI-C-1556	(2S,3aS,7aS)-1-((2S)-2-(3-cyclohexyl-2,4-dioxo-5-propylimidazolidin-1-yl)propanoyl)octahydro-1H-indole-2-carboxylic acid	353777-66-9	NA	$C_{24}H_{37}N_3O_5$	447.57
2242		Perindopril EP impurity H	O=C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)[C@H](C)N3C(N(C4CCCCC4)C(C3CCC)=O)=NC5CCCCC5	impurty	DCTI-C-1557	(2S,3aS,7aS)-1-((2S)-2-(3-cyclohexyl-2-(cyclohexylimino)-4-oxo-5-propylimidazolidin-1-yl)propanoyl)octahydro-1H-indole-2-carboxylic acid	353777-64-7	USP related compoundd G, Perindopril EP impurity H	$C_{30}H_{48}N_4O_4$	528.74
2243		Perindopril EP impurity F	O=C([C@H](CCC)N1[C@@H](C)C(N2[C@@H](C[C@]3([H])CCCC[C@]23[H])C1=O)=O)OCC	impurty	DCTI-C-1558	ethyl (S)-2-((3S,5aS,9aS,10aS)-3-methyl-1,4-dioxodecahydropyrazino[1,2-a]indol-2(1H)-yl)pentanoate	NA	Perindopril Diketopiperazine	C19H30N2O4	350.46
2244		Perindopril EP impurity D	O=C([C@H](CCC)N1[C@@H](C)C(N2[C@H](C[C@]3([H])CCCC[C@]23[H])C1=O)=O)O	impurty	DCTI-C-1559	(S)-2-((3S,5aS,9aS,10aR)-3-methyl-1,4-dioxodecahydropyrazino[1,2-a]indol-2(1H)-yl)pentanoic acid	130061-28-8	Perindoprilate lactum B	C17H26N2O4	322.4
2245		Perindopril impurity B	O=C([C@H](CCC)N[C@@H](C)C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)=O)O	Metabolite	DCTI-C-1560	(2S,3aS,7aS)-1-(((S)-1-carboxybutyl)-L-alanyl)octahydro-1H-indole-2-carboxylic acid	95153-31-4	NA	$C_{17}H_{28}N_2O_5$	340.42
2246		Perindopril Impurity	O=C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)[C@H](C)N(C(CCC)C(OCC)=O)C(NC3CCCCC3)=NC4CCCCC4	impurty	DCTI-C-1561	(2S,3aS,7aS)-1-(N-(N,N'-dicyclohexylcarbamimidoyl)-N-(1-ethoxy-1-oxopentan-2-yl)-L-alanyl)octahydro-1H-indole-2-carboxylic acid	NA	NA	$C_{32}H_{54}N_4O_5$	574.81

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2247		Perindopril EP Impurity J Hydrochloride	N[C@@H](C)C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)=O.Cl	Impurity	DCTI-C-2484	(2S, 3aS, 7aS)-1-(L-alanyl) octahydro-1H-indole-2-carboxylic acid hydrochloride	685523-06-2 (free base)	Perindopril-N-Desethyl Pentanoate	C12H21ClN2O3 (HCl Salt) ; C12H20N2O3 (Free base)	276.76 (HCl Salt) ; 240.30 (Free base)
2248		Perindopril EP Impurity C	O=C([C@H](CCC)N1[C@@H](C)C(N2[C@@H](C[C@]3([H])CCCC[C@]23[H])C1=O)=O)O	Impurity	DCTI-C-2820	(S)-2-((3S,5aS,9aS,10aS)-3-methyl-1,4-dioxodecahydropyrazino[1,2-a]indol-2(1H)-yl)pentanoic acid	129970-99-6	Perindoprilate lactum A	C17H26N2O4	322.4
2249		N-nitroso-perindopril	O=C([C@H](CCC)N(N=O)[C@@H](C)C(N1[C@@H](C[C@@H]2CCCC[C@H]12)C(O)=O)=O)OCC	NDSRI	DCTI-C-3773	(2S,3aS,7aS)-1-(N-((S)-1-ethoxy-1-oxopentan-2-yl)-N-nitroso-L-alanyl)octahydro-1H-indole-2-carboxylic acid	NA	n-nitroso-perindropil(mixture of mixtures)	C19H31N3O6	397.47
2250		Perindopril Impurity O	O=C(O)[C@H]1N([C@]2(CCCC[C@]2(C1)[H])[H])C([C@H]3N([C@]4(CCCC[C@]4(C3)[H])[H])C([C@H](C)N[C@@H](CCC)C(OCC)=O)=O)=O	Impurity	DCTI-C-3275	(2S,3aS,7aS)-1-((2S,3aS,7aS)-1-(((S)-1-ethoxy-1-oxopentan-2-yl)-L-alanyl)octahydro-1H-indole-2-carbonyl)octahydro-1H-indole-2-carboxylic acid	NA	NA	C28H45N3O6	519.68
2251	**Phenoxy banzamine**	1-Benzyl-1-(1-phenoxypropan-2-yl)aziridinium perchlorate	CC([N+]1(CC2=CC=CC=C2)CC1)COC3=CC=CC=C3.O=Cl(=O)([O-])=O	Impurity	DCTI-C-2665	1-benzyl-1-(1-phenoxypropan-2-yl)aziridin-1-ium perchlorate	57619-17-7	N-Phenoxy isopropyl-N-benzyl aziridinium perchlorate; Phenoxybenzamine Hydrochloride Tertiary Amine Impurity	C18H22NO.ClO4	367.83
2252		PHENYLEPHRINE CITRATE ADDUCT	O[C@@H](CN(C(CC(O)(C(O)=O)CC(O)=O)=O)C)C1=CC(O)=CC=C1	impurity	DCTI-C-2141	2-hydroxy-2-(2-(((R)-2-hydroxy-2-(3-hydroxyphenyl)ethyl)(methyl)amino)-2-oxoethyl) succinic acid	NA	NA	C15H19NO8	341.32

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2253	PHENYLEPHRINE	(R)-4-chloro-3-(1-hydroxy-2-(methylamino)ethyl)phenol hydrochloride	O[C@@H](CNC)C1=C(Cl)C=CC(O)=C1.Cl	Impurity	DCTI-C-2827	(R)-4-chloro-3-(1-hydroxy-2-(methylamino)ethyl) phenol hydrochloride	2059975-38-9	3-[1-hydroxy-2-(methylamino)-ethyl]-4-chlorophenol hydrochloride; Phenyl ephrine chloro impurity	C9H12ClNO2 (Free Base) C9H13Cl2NO2 (Salt)	201.65 (Free Base)238.11 (Salt)
2254		Phenyl Ephrine D-(+)-Glucose Adduct	OC1=CC=CC([C@H](CN(CC([C@@H](O)[C@H](O)[C@H](O)CO)=O)C)O)=C1	Metabolite	DCTI-C-2847	(3S,4R,5R)-3,4,5,6-tetrahydroxy-1-(((R)-2-hydroxy-2-(3-hydroxyphenyl)ethyl)(methyl)amino)hexan-2-one	2575516-66-2	NA	C15H23NO7	329.35
2255		Phenylephrine Impurity 30	OC1=CC=CC([C@H](CN(C)C(CC(O)=O)C(O)=O)O)=C1	Impurity	DCTI-C-2881	N-((R)-2-hydroxy-2-(3-hydroxyphenyl)ethyl)-N-methylaspartic acid	915278-80-7	N-(2-Succinyl) Phenylephrine (Mixture of Diastereomers)	C13H17NO6	283.28
2256		2-CHLORO-1-(3-HYDROXYPHENYL)-ETHANOL(Phenylephrine)	OC1=CC(C(O)CCl)=CC=C1	Impurity	DCTI-C-2939	3-(2-chloro-1-hydroxyethyl)phenol	1378757-22-2	α-(Chloromethyl)-3-hydroxybenzenemethanol	C8H9ClO2	172.61
2257		N-Formyl Phenylephrine	O[C@@H](CN(C([H])=O)C)C1=CC=CC(O)=C1	Impurity	DCTI-C-3315	(R)-N-(2-hydroxy-2-(3-hydroxyphenyl)ethyl)-N-methylformamide	2382194-29-6	NA	C10H13NO3	195.22
2258		Phenylephrine 4,6-THQ-HMF-Isomer-2, acetate salt	O[C@H]1CN(C)[C@H](C2=CC=C(CO)O2)C3=C1C=C(O)C=C3.CC([O-])=O	IMPURITY	DCTI-C-3462	(1S,4R)-1-(5-(hydroxymethyl)furan-2-yl)-2-methyl-1,2,3,4-tetrahydroisoquinoline-4,6-diol, acetate salt-rel	NA	(1S,4R)-1-(5-(hydroxymethyl)furan-2-yl)-2-methyl-1,2,3,4-tetrahydroisoquinoline-4,6-diol, acetate salt-rel	C15H17NO4 (Free base) C17H20NO6- (Salt)	275.30 (Free base) 334.35 (Salt)
2259		Phenylephrine 4,6-THQ-HMF-Isomer-1 (acetate salt)	O[C@H]1CN(C)[C@@H](C2=CC=C(CO)O2)C3=C1C=C(O)C=C3.CC([O-])=O	IMPURITY	DCTI-C-3461	(1R,4R)-1-(5-(hydroxymethyl)furan-2-yl)-2-methyl-1,2,3,4-tetrahydroisoquinoline-4,6-diol, acetate salt-rel	NA	1-(5-(Hydroxymethyl)furan-2-yl)-2-methyl-1,2,3,4-tetrahydroisoquinoline-4,6-diol,acetate salt-rel	C15H17NO4 (Free base) C17H20NO6- (Salt)	275.30 (Free base) 334.35 (Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2260		Phenylephrine 4,8-THQ-HMF Isomer (acetate salt)	OC1CN(C)C(C2=CC=C(CO)O2)C3=C1C=CC=C3O.CC(O)=O	Impurity	DCTI-C-3578	1-(5-(hydroxymethyl)furan-2-yl)-2-methyl-1,2,3,4-tetrahydroisoquinoline-4,8-diol acetate	NA	NA	C15H17NO4 (Free base) C17H21NO6 (Salt)	275.30 (Free base) 334.35 (Salt)
2261		Phenylephrine Nitroso Impurity (Mixture of isomers)	O[C@@H](CN(N=O)C)C1=CC=CC(O)=C1	NDSRI	DCTI-C-3766	(R)-N-(2-hydroxy-2-(3-hydroxyphenyl)ethyl)-N-methylnitrous amide	78658-64-7	NA	C9H12N2O3	196.21
2262	**Phenyl methanone**	(5-chloro-2-(methylamino)phenyl)(phenyl)methanone	ClC1=CC(C(C2=CC=CC=C2)=O)=C(C=C1)NC	Impurity	DCTI-C-3072	(5-chloro-2-(methylamino)phenyl)(phenyl)methanone	1022-13-5	NA	C14H12ClNO	245.71
2263		N-(2-benzoyl-4-chlorophenyl)-N-methylnitrosamine	O=NN(C(C=CC(Cl)=C1)=C1C(C2=CC=CC=C2)=O)C	NDSRI	DCTI-C-3142	N-(2-benzoyl-4-chlorophenyl)-N-methylnitrous amide	51145-18-7	N-(2-benzoyl-4-chlorophenyl)-N-methylnitrosamine	C14H11ClN2O2	274.7
2264		Trans Phytonadione acetyl Impurity	CC1=C(OC(C)=O)C2=CC=CC=C2C(OC(C)=O)=C1C/C=C(C)/CCCC(C)CCCC(C)CCCC(C)C	Impurity	DCTI-C-117	(E)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-diyl diacetate	NA	NA	C35H52O4	536.8
2265		1,4-Naphthalenediol, 2-methyl-, 1-acetate	OC1=C2C=CC=CC2=C(OC(C)=O)C(C)=C1	impurity	DCTI-C-1803	4-hydroxy-2-methylnaphthalen-1-yl acetate.	NA	1-Acetoxy-4-hydroxy-2-methylnaphthalene; 4-Hydroxy-2-methyl-1-naphthyl acetate; Menadiol 1-acetate; Vitamin K4 1-monoacetate	C13H12O3	216.24
2266		Cyclopentadiene-Menadione Cyclo adduct	O=C1C2=C(C=CC=C2)C([C@]3(C)[C@]4([H])C=C[C@](C4)([H])[C@]13[H])=O	impurity	DCTI-C-2071	(1R,4S,4aR,9aS)-rel-4a-Methyl-1,4,4a,9a-tetrahydro-1,4-methanoanthracene-9,10-dione.	2457204-51-0	(1R,4S,4aR,9aS)-rel-4a-Methyl-1,4,4a,9a-tetrahydro-1,4-methanoanthracene-9,10-dione.	C16H14O2	238.29

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2267		Naphthalene-1,4-diyl diacetate	CC(OC1=C2C=CC=CC2=C(OC(C)=O)C=C1)=O	impurity	DCTI-C-1862	Naphthalene-1,4-diyl diacetate	NA	1,4-Naphthalenediol, diacetate; 1,4-Diacetoxynaphthalene.	C14H12O4	244.25
2268		2-Acetyl-3-methyl-1,4-naphthalenedione	O=C1C(C)=C(C(C)=O)C(C2=C1C=CC=C2)=O	impurity	DCTI-C-1804	2-acetyl-3-methylnaphthalene-1,4-dione	NA	2-Acetyl-3-methyl-1,4-naphthalenedione (ACI); 1,4-Naphthoquinone, 2-acetyl-3-methyl-	C13H10O3	214.22
2269		Phytonadione 0.16 RRT Impurity	O=C1C(O)=C(C)C(C2=CC=CC=C21)=O	Impurity	DCTI-C-1370	2-hydroxy-3-methylnaphthalene-1,4-dione.	483-55-6	NA	C11H8O3	188.18
2270		2-Acetyl-1,4-naphthoquinone	O=C1C=C(C(C)=O)C(C2=C1C=CC=C2)=O	impurity	DCTI-C-1871	2-acetylnaphthalene-1,4-dione	NA	2-Acetyl-1,4-naphthalenedione (ACI); 2-Acetyl-1,4-dihydronaphthalene-1,4-dione	C12H8O3	200.19
2271		Phytonadione Dihydroxy Epoxy Impurity - Diastereomer-5	CC(C)CCCC(C)CCCC(C)CCCC(O)(C)C(O)CC1(C2=O)OC(C(C3=CC=CC=C23)=O)1C	Impurity	DCTI-C-1659	1a-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-7a-methyl-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	NA	C31H48O5	500.72
2272		Phytonadione Dihydroxy Epoxy Impurity - Diastereomer-6	CC(C)CCCC(C)CCCC(C)CCCC(O)(C)C(O)CC1(C2=O)OC(C(C3=CC=CC=C23)=O)1C	Impurity	DCTI-C-1660	1a-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-7a-methyl-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	NA	C31H48O5	500.72

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2273		Vitamin K3-2,3-epoxide Impurity	O=C1C(O2)C2(C)C(C3=CC=CC=C31)=O	Impurity	DCTI-C-1382	1a-methyl-1a,7a-dihydronaphtho[2,3-b] oxirene-2,7-dione	15448-59-6	NA	C11H8O3	188.18
2274		Phytonadione Di-Hydroxy Epoxide Impurity - Diastereomer-1	CC(C)CCCC(C)CCCC(C)CCCC(O)(C)C(O)CC1(C2=O)OC(C(C3=CC=CC=C23)=O)1C	Impurity	DCTI-C-1376	1a-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-7a-methyl-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	NA	C31H48O5	500.72
2275		Phytonadione Dihydroxy Epoxide Impurity - Diastereomer-2	CC(C)CCCC(C)CCCC(C)CCCC(O)(C)C(O)CC1(C2=O)OC(C(C3=CC=CC=C23)=O)1C	Impurity	DCTI-C-1379	1a-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-7a-methyl-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	NA	C31H48O5	500.72
2276		Phytonadione Dihydroxy Epoxide Impurity - Diastereomer-3	CC(C)CCCC(C)CCCC(C)CCCC(O)(C)C(O)CC1(C2=O)OC(C(C3=CC=CC=C23)=O)1C	Impurity	DCTI-C-1380	1a-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-7a-methyl-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	NA	C31H48O5	500.72
2277		Phytonadione Dihydroxy Epoxide Impurity - Diastereomer-4	CC(C)CCCC(C)CCCC(C)CCCC(O)(C)C(O)CC1(C2=O)OC(C(C3=CC=CC=C23)=O)1C	Impurity	DCTI-C-1381	1a-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-7a-methyl-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	NA	C31H48O5	500.72
2278		Phytonadione Diol Impurity-1	O=C(C(CC(O)C(O)(C)CCCC(C)CCCC(C)CCCC(C)C)=C1C)C2=CC=CC=C2C1=O	impurity	DCTI-C-1372	2-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	Phytonadione Diol Impurity Diastereomer-1	C31H48O4	484.72

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2279		Phytonadione Diol Impurity-2	O=C(C(CC(O)C(O)(C)CCCC(C)CCCC(C)CCCC(C)C)=C1C)C2=CC=CC=C2C1=O	impurity	DCTI-C-1373	2-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	Phytonadione Diol Impurity Diastereomer-2	C31H48O4	484.72
2280		Phytonadione Diol Impurity-3	O=C(C(CC(O)C(O)(C)CCCC(C)CCCC(C)CCCC(C)C)=C1C)C2=CC=CC=C2C1=O	impurity	DCTI-C-1374	2-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	Phytonadione Diol Impurity Diastereomer-3	C31H48O4	484.72
2281		Phytonadione Diol Impurity-4	O=C(C(CC(O)C(O)(C)CCCC(C)CCCC(C)CCCC(C)C)=C1C)C2=CC=CC=C2C1=O	impurity	DCTI-C-1375	2-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	Phytonadione Diol Impurity Diastereomer-4	C31H48O4	484.72
2282		Phytonadione Peroxy Impurity - Diastereomer-1	CC(C)CCCC(C)CCCC(C)CCCC(C)C(OO)CC(C1=O)=C(C(C2=CC=CC=C12)=O)C	Impurity	DCTI-C-1377	2-(2-hydroperoxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	NA	C31H48O4	484.72
2283		Phytonadione Peroxy Impurity - Diastereomer-2	CC(C)CCCC(C)CCCC(C)CCCC(C)C(OO)CC(C1=O)=C(C(C2=CC=CC=C12)=O)C	Impurity	DCTI-C-1378	2-(2-hydroperoxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	NA	C31H48O4	484.72
2284		Phytonadione 0.049 RRT Impurity	OC(C1=CC=CC=C1C(O)=O)=O	Impurity	DCTI-C-1371	1,2-benzenedicarboxylic acid	88-99-3	Phthalic acid	C8H6O4	166.13

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2285	Phytonadione	Phytonadione Epoxy Impurity / 2,3-Epoxide Vitamin K1	O=C(C(C/C=C(C)/CCCC(C)CCCC(C)CCCC(C)C)(O1)C21C)C3=CC=CC=C3C2=O	Metabolite	DCTI-C-118	(E)-1a-methyl-7a-(3,7,11,15-tetramethylhexadec-2-en-1-yl)-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	1588773-08-3	NA	C31H46O3	466.71
2286		Phytonadione Impurity A	O=C(C=C1C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-119	2-methylnaphthalene-1,4-dione	58-27-5	NA	C11H8O2	172.18
2287		Phytonadione epoxy Impurity (Mixture of Trans and Cis)	CC1=C(CC2C(C)(O2)CCCC(C)CCCC(C)CCCC(C)C)C(C3=CC=CC=C3C1=O)=O	Impurity	DCTI-C-091	2-methyl-3-(2-(2-methyl-3-(4,8,11-trimethyldodecyl)oxiran-2-yl)ethyl)naphthalene-1,4-dione	NA	NA	C31H46O3	466.71
2288		Vitamin K1 Related Compound-1	OC(C1=C2C=CC=C1)=C(C)C3=C2OCC3=O	Impurity	DCTI-C-205	5-hydroxy-4-methylnaphtho[1,2-b]furan-3(2H)-one	NA	NA	C13H10O3	214.22
2289		Phytonadione related impurity	OC1=C(C)C2=C(OC(C)(CCCC(C)CCCC(C)CCCC(C)C)C=C2)C3=CC=CC=C31	Impurity	DCTI-C-182	2,5-dimethyl-2-(4,8,12-trimethyltridecyl)-2H-benzo[h]chromen-6-ol	NA	NA	C31H46O2	450.71
2290		Phytonadione Photodegradation Impurity / Vitamin K1 Hydroperoxide	CC1=C(/C=C/C(C)(OO)CCCC(C)CCCC(C)CCCC(C)C)C(C2=CC=CC=C2C1=O)=O	Impurity	DCTI-C-042	(E)-2-(3-hydroperoxy-3,7,11,15-tetramethylhexadec-1-en-1-yl)-3-methylnaphthalene-1,4-dione	NA	NA	C31H46O4	482.71

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2291		Phytonadione Thermal Degradation Impurity / Vitamin K1 Impurity H	CC1=C(/C=C/C(C)(O)CCCC(C)CCCC(C)CCCC(C)C)C(C2=CC=CC=C2C1=O)=O	Impurity	DCTI-C-043	(E)-2-(3-hydroxy-3,7,11,15-tetramethylhexadec-1-en-1-yl)-3-methylnaphthalene-1,4-dione	15576-40-6	NA	C31H46O3	466.71
2292		Trans Phytonadione Epoxy Impurity	CC1=C(CC2C(C)(O2)CCCC(C)CCCC(C)CCCC(C)C)C(C3=CC=CC=C3C1=O)=O	Impurity	DCTI-C-044	2-methyl-3-((3-methyl-3-(4,8,12-trimethyltridecyl)oxiran-2-yl)methyl)naphthalene-1,4-dione	NA	NA	C31H46O3	466.71
2293		Phytonadione Diol Impurrity	O=C(C(CC(O)C(O)(C)CCCC(C)CCCC(C)CCCC(C)C)=C1C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-045	2-(2,3-dihydroxy-3,7,11,15-tetramethylhexadecyl)-3-methylnaphthalene-1,4-dione	NA	NA	C31H48O4	484.72
2294		Phytonadione Cis-I	O=C(C(C)=C1C/C=C(C)\CCCC(CCCC(C)CCCC(C)C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-422	(Z)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Phytonadione Cis-I Impurity	C31H46O2	450.71
2295		Phytonadione Cis-II	O=C(C(C)=C1C/C=C(C)\CCCC(CCCC(C)CCCC(C)C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-423	(Z)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Phytonadione Cis-II Impurity	C31H46O2	450.71
2296		Phytonadione Cis-III	O=C(C(C)=C1C/C=C(C)\CCCC(CCCC(C)CCCC(C)C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-424	(Z)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Phytonadione Cis-III Impurity	C31H46O2	450.71

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2297		Phytonadione Cis-IV	O=C(C(C)=C1C/C=C(C)\CCCC(CCCC(C)CCCC(C)C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-425	(Z)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Phytonadione Cis-IV Impurity	C31H46O2	450.71
2298		Phytonadione Trans-I	O=C(C(C)=C1C/C=C(C)/CCCC(C)CCCC(C)CCCC(C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-426	(E)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Tran-Phytonadione-Daistereomer-1	C31H46O2	450.71
2299		Phytonadione Trans-III	O=C(C(C)=C1C/C=C(C)/CCCC(C)CCCC(C)CCCC(C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-427	(E)-2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Tran-Phytonadione-Daistereomer-1	C31H46O2	450.71
2300		Phytonadione Trans-IV	O=C(C(C)=C1C/C=C(C)/CCC[C@@H](C)CCC[C@@H](C)CCCC(C)C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-428	2-methyl-3-((7S,11S,E)-3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-dione	NA	Tran-Phytonadione-Enantiomer or S,S-Trans Isomer	C31H46O2	450.71
2301		Dihydro vitamin K1	OC1=C(C/C=C(C)/CCC[C@H](C)CCC[C@H](C)CCCC(C)C)C(C)=C(O)C2=CC=CC=C21	Impurity	DCTI-C-450	2-methyl-3-((7R,11R)-3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalene-1,4-diol	572-96-3	Phylloquinone; dihydro-Phytonadiol; Reduced phylloquinone; Vitamin K1 hydroquinone; α-Phyllohydroquinone	C31H48O2	452.72
2302		β,γ-Dihydro vitamin K1	O=C1C(CCC(C)CCC[C@H](C)CCC[C@H](C)CCCC(C)C)=C(C)C(C2=CC=CC=C21)=O	Impurity	DCTI-C-518	2-methyl-3-((7R,11R)-3,7,11,15-tetramethylhexadecyl)naphthalene-1,4-dione	1217521-73-7	Dihydro Phytonadione	C31H48O2	452.72

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2303		Phytonadione (Mixture of Trans Racemic & Cis Racemic) Mixture of eight isomers	O=C(C(CC=C(C)CCCC(C)CCCC(C)CCCC(C)C)=C1C)C2=CC=CC=C2C1=O	Impurity	DCTI-C-631	2-methyl-3-(3,7,11,15-tetramethylhexadec-2-en-1-yl)-naphthalene-1,4-dione	NA	NA	C31H46O2	450.71
2304		Vitamin K1 Related Compound 5	OC1=C(C/C=C(C)/CCC[C@H](C)CCC[C@H](C)CCCC(C)C)C(C)=C(OC(C)=O)C2=CC=CC=C21	Impurity	DCTI-C-669	4-hydroxy-2-methyl-3-((7R,11R,E)-3,7,11,15-tetramethylhexadec-2-en-1-yl)naphthalen-1-yl acetate	50281-47-5	NA	C33H50O3	494.76
2305		2,3-Epoxide Vitamin K1 Isomer-I	O=C1C(C)(O2)C2(C/C=C(C)/CCC[C@H](C)CCC[C@H](C)CCCC(C)C)C(C3=CC=CC=C31)=O	impurity	DCTI-C-1158	1a-methyl-7a-((7R,11R,E)-3,7,11,15-tetramethylhexadec-2-en-1-yl)-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	Trans Epoxy phytonadione isomer-I; Trans Epoxy phytomenadione isomer-I	C31H46O3	466.71
2306		2,3-Epoxide Vitamin K1 Isomer-II	O=C1C(C)(O2)C2(C/C=C(C)/CCC[C@H](C)CCC[C@H](C)CCCC(C)C)C(C3=CC=CC=C31)=O	impurity	DCTI-C-1159	1a-methyl-7a-((7R,11R,E)-3,7,11,15-tetramethylhexadec-2-en-1-yl)-1a,7a-dihydronaphtho[2,3-b]oxirene-2,7-dione	NA	Trans Epoxy phytonadione isomer-II; Trans Epoxy phytomenadione isomer-II	C31H46O3	466.71
2307		(E)-2-methyl-3-(3,7,11,15-tetramethylhexadeca-2,14-dien-1-yl)naphthalene-1,4-dione	O=C1C(C)=C(C/C=C(C)/CCCC(C)CCCC(C)CC/C=C(C)/C)C(C2=CC=CC=C21)=O	IMPURITY	DCTI-C-3201	(E)-2-methyl-3-(3,7,11,15-tetramethylhexadeca-2,14-dien-1-yl)naphthalene-1,4-dione	NA	NA	C31H44O2	448.69
2308		2-methyl-3-((2E,6E)-3,7,11,15-tetramethylhexadeca-2,6-dien-1-yl)naphthalene-1,4-dione	O=C1C(C)=C(C(C2=C1C=CC=C2)=O)C/C=C(CC/C=C(CCCC(CCCC(C)C)C)\C)\C	IMPURITY	DCTI-C-3226	2-methyl-3-((2E,6E)-3,7,11,15-tetramethylhexadeca-2,6-dien-1-yl)naphthalene-1,4-dione	NA	2,6-dien-Phytonadione	C31H44O2	448.69

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2309		Menaquinone-4	O=C1C(C)=C(C/C=C(C)/CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/C)C(C2=C1C=CC=C2)=O	Impurity	DCTI-C-3345	2-methyl-3-((2E,6E,10E)-3,7,11,15-tetramethylhexadeca-2,6,10,14-tetraen-1-yl)naphthalene-1,4-dione	863-61-6	Vitamin K2; Vitamin K2 (Mk-4) Menatetrenone; Menaquinone (K2); Menaquinone 4(Mixture of cis-trans isomers).	C31H40O2	444.66
2310		1-(1,4-dihydroxynaphthalen-2-yl)ethan-1-one	CC(C1=CC(O)=C2C=CC=CC2=C1O)=O	Impurity	DCTI-C-3408	1-(1,4-dihydroxynaphthalen-2-yl)ethan-1-one	40420-48-2	2-acetonapthalene	C12H10O3	202.21
2311		2-methylnaphthalene-1,4-diyl diacetate	CC1=CC(OC(C)=O)=C2C=CC=CC2=C1OC(C)=O	Impurity	DCTI-C-3409	2-methylnaphthalene-1,4-diyl diacetate	573-20-6	acetomenaphthone	C15H14O4	258.27
2312	**Phthalazinone**	Phthalazinone Derivative-1	CC(C)(C1=CC=CC(C2=NN(C3=CC=C(F)C=C3F)C(C4=C2C=CC=C4)=O)=C1)C(N)=O	Impurity	DCTI-C-2375	2-(3-(3-(2,4-difluorophenyl)-4-oxo-3,4-dihydrophthalazin-1-yl)phenyl)-2-methylpropanamide	2553268-63-4	NA	C24H19F2N3O2	419.43
2313	**Pibrenstavir**	Desfluoro Pibrenstavir Impurity	FC1=C(C=C2C(N=C([C@H]3N(CCC3)C([C@H]([C@@H](C)OC)NC(OC)=O)=O)N2)=C1)[C@@H]4N(C5=CC(F)=C(N6CCC(C7=CC=CC=C7)CC6)C(F)=C5)[C@@H](C8=C(F)C=C(N=C([C@H]9N(CCC9)C([C@H]([C@@H](C)OC)NC(OC)=O)=O)N%10)C%10=C8)CC4	Impurity	DCTI-C-3416	dimethyl ((2S,2'S,3R,3'R)-((2S,2'S)-(((2R,5R)-1-(3,5-difluoro-4-(4-phenylpiperidin-1-yl)phenyl) pyrrolidine-2,5-diyl)bis(6-fluoro-1H-benzo[d] imidazole-5,2-diyl))bis(pyrrolidine-2,1-diyl))bis(3-methoxy-1-oxobutane-1,2-diyl))dicarbamate	1332357-67-1	NA	C57H66F4N10O8	1095.21
2314	**Pinaverium**	Dehydropinaverium Bromide	BrC1=C(C[N+]2(CCOCC2)CCOCCC3=CCC4CC3C4(C)C)C=C(OC)C(OC)=C1.[Br-]	Impurity	DCTI-C-2581	4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl)morpholin-4-ium bromide	1235355-01-7	NA	C26H39Br2NO4	509.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2315	Piperacillin	Piperacillin EP Impurity-J	O=C1C(N(C(NC(C2=CC=CC=C2)C(NCC(O)=O)=O)=O)CCN1CC)=O	Impurity	DCTI-C-081	(2-(4-ethyl-2,3-dioxopiperazine-1-carboxamido)-2-phenylacetyl)glycine	NA	NA	C17H20N4O6	376.37
2316		Piperacillin EP Impurity-A Isocyanate	O=C([C@@H]1N2C([C@H]([C@H]2SC1(C)C)NC(C(N=C=O)C3=CC=CC=C3)=O)=O)O	Impurity	DCTI-C-082	(2S,5R,6R)-6-(2-isocyanato-2-phenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid	NA	NA	C17H17N3O5S	375.4
2317		Piperacillin EP Impurity-K	O=C1C(N(C(NC(C2=CC=CC=C2)C3=N/C(C(O3)=O)=C/N[C@H](C(S)(C)C)C(O)=O)=O)CCN1CC)=O	Impurity	DCTI-C-106	(2S)-2-(((E)-(2-((4-ethyl-2,3-dioxopiperazine-1-carboxamido)(phenyl)methyl)-5-oxooxazol-4(5H)-ylidene)methyl)amino)-3-mercapto-3-methylbutanoic acid	NA	NA	C23H27N5O7S	517.56
2318		(2S,5R,6R)-6-((S)-2,5-dioxo-4-phenylimidazolidin-1-yl)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid	O=C([C@H](C1=CC=CC=C1)N2)N([C@@H]([C@H]3SC4(C)C)C(N3[C@H]4C(O)=O)=O)C2=O	impurity	DCTI-C-1215	(2S,5R,6R)-6-((S)-2,5-dioxo-4-phenylimidazolidin-1-yl)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid	NA	NA	C17H17N3O5S	375.4
2319		5-(Hydroxymethyl)-1-phenyl-2(1H)-pyridinone	O=C1C=CC(CO)=CN1C2=CC=CC=C2	Metabolite	DCTI-C-545	5-(hydroxymethyl)-1-phenylpyridin-2(1H)-one	887406-49-7	5-Hydroxymethyl Pirfenidone	C12H11NO2	201.23

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2320		Pirfenidone PIRRC-11	CC1=CN(C2=CC=CC=C2N3C(C=CC(C)=C3)=O)C(C=C1)=O	Impurity	DCTI-C-1710	1,1'-(1,2-phenylene)bis(5-methylpyridin-2(1H)-one)	NA	Pirfenidone dimer impurity; Pirfenidone dimer	C18H16N2O2	292.34
2321		N-(4-Hydroxyphenyl)-5-Methyl-2-1H-Pyridone	O=C1C=CC(C)=CN1C2=CC=C(O)C=C2	Impurity	DCTI-C-546	1-(4-hydroxyphenyl)-5-methylpyridin-2(1H)-one	851518-71-3	F 351	C12H11NO2	201.23
2322		2 Hydroxy-5-methylpyridine-N-Oxide	OC1=[N+]([O-])C=C(C)C=C1	Impurity	DCTI-C-591	2-hydroxy-5-methylpyridine 1-oxide	NA	Pirfenidone Impurity	C6H7NO2	125.13
2323		3-pyridine carboxaldehyde,1 ,6-dihydro-6-oxo-1-phenyl-	O=CC1=CN(C2=CC=CC=C2)C(C=C1)=O	Impurity	DCTI-C-600	6-oxo-1-phenyl-1,6-dihydropyridine-3-carbaldehyde	914918-78-8	Pirfenidone Aldehyde Impurity	C12H9NO2	199.21
2324		5-methyl-N-phenylpyridin-2-amine	CC1=CN=C(NC2=CC=CC=C2)C=C1	Impurity	DCTI-C-714	5-methyl-N-phenylpyridin-2-amine	43191-23-7	Pirfenidone Impurity; 5-Methyl-2-anilinopyridine	C12H12N2	184.24
2325		2-Nitro-diphenyl amine (NDPA)	O=[N+](C1=CC=CC=C1NC2=CC=CC=C2)[O-]	impurity	DCTI-C-1166	2-nitro-N-phenylaniline	119-75-5	NA	C12H10N2O2	214.22

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2326	Pirfenidone	5-Methyl-N,N diphenylpyridin-2-amine	CC1=CN=C(N(C2=CC=CC=C2)C3=CC=CC=C3)C=C1	impurity	DCTI-C-1165	5-methyl-N,N-diphenylpyridin-2-amine	1445086-62-3	NA	C18H16N2	260.34
2327		Pirfenidone EP Impurity A	CC1=CC=C(N)N=C1	Impurity	DCTI-C-2654	5-methylpyridin-2-amine	1603-41-4	2-Amino-5-methylpyridine; 2-Amino-5-picoline	C6H8N2	108.14
2328		Pirfenidone EP Impurity B	CC(C=C1)=CNC1=O	Impurity	DCTI-C-2655	5-methylpyridin-2(1H)-one	1003-68-5	2-Hydroxy-5-methylpyridine; 2-Hydroxy-5-picoline	C6H7NO	109.13
2329		POM Hydrolysis Impurity 1	O=C(O)CCC(C(N)=O)N(C(C1=C2C=CC=C1N)=O)C2=O	Metabolite	DCTI-C-2243	5-amino-4-(4-amino-1,3-dioxoisoindolin-2-yl)-5-oxopentanoic acid.	NA	2H-Isoindole-2-butanoic acid; 4-amino-γ-(aminocarbonyl)-1,3-dihydro-1,3-dioxo.	C13H13N3O5	291.26
2330		POM Hydrolysis Impurity 2	O=C(N)CCC(C(O)=O)N(C(C1=C2C=CC=C1N)=O)C2=O	Metabolite	DCTI-C-2244	5-amino-2-(4-amino-1,3-dioxoisoindolin-2-yl)-5-oxopentanoic acid.	NA	Pomalidomide Impurity J; Hydrolyzed Pomalidomide M11; Pomalidomide Impurity 3.	C13H13N3O5	291.26
2331		Pomalidomide formyl impurity	O=C(N1C2CCC(NC2=O)=O)C3=C(NC([H])=O)C=CC=C3C1=O	impurity	DCTI-C-2245	N-(2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)formamide.	NA	NA	C14H11N3O5	301.26

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2332		Pomalidomide Impurity 5	O=C1N(C2C(NC(CC2)=O)=O)C(C3=CC=CC([N+]([O-])=O)=C31)=O	Impurity	DCTI-C-3129	2-(2,6-dioxopiperidin-3-yl)-4-nitroisoindoline-1,3-dione	19171-18-7	NA	C13H9N3O6	303.23
2333		Pomalidomide Impurity 22 HCl	NC1=CC=CC(C(O)=O)=C1C(O)=O.Cl	Metabolite	DCTI-C-3130	3-aminophthalic acid hydrogen chloride	6946-22-1	NA	C8H7NO4(free base)C8H8ClNO4(HCl salt)	217.61(HCl salt) 181.15(Free Base)
2334		Pomalidomide Impurity 6	O=C1N(C2C(NC(CC2)=O)=O)C(C3=CC=CC(N4C(C(C=CC=C5N)=C5C4=O)=O)=C31)=O	Impurity	DCTI-C-3159	4-amino-2'-(2,6-dioxopiperidin-3-yl)-[2,4'-biisoindoline]-1,1',3,3'-tetraone	1795373-54-4	NA	C21H14N4O6	418.37
2335		Pomalidomide Impurity 1	O=C1N(C2=CC=CC(C(O)=O)=C2C(O)=O)C(C3=CC=CC(N)=C31)=O	Impurity	DCTI-C-3170	3-(4-amino-1,3-dioxoisoindolin-2-yl)phthalic acid	92792-46-6	NA	C16H10N2O6	326.26
2336		POM HYDROXYLAMINE	O=C1N(C(CC2)C(NC2=O)=O)C(C3=C1C=CC=C3NO)=O	Impurity	DCTI-C-3362	2-(2,6-dioxopiperidin-3-yl)-4-(hydroxyamino)isoindoline-1,3-dione	497147-11-2	N-Hydroxy Pomalidomide	C13H11N3O5	289.25
2337		Pomalidomide metabolite M18	O=C1C(CCC(N1)=O)N2C(C3=C(C=CC=C3NC(C)=O)C2=O)=O	Metabolite	DCTI-C-3506	N-(2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)acetamide	444289-17-2	NA	C15H13N3O5	315.29
2338		Polmacoxib Impurity 1	O=C1C(C)(C)OC(C2=CC=C(SC)C=C2)=C1C3=CC=CC(F)=C3	Impurity	DCTI-C-3562	4-(3-fluorophenyl)-2,2-dimethyl-5-(4-(methylthio)phenyl)furan-3(2H)-one	301693-50-5	NA	C19H17FO2S	328.4
2339		Polmacoxib Impurity-2	CC1(C)C(C(C2=CC(F)=CC=C2)=C(C3=CC=C(S(C)=O)C=C3)O1)=O	Impurity	DCTI-C-3584	4-(3-fluorophenyl)-2,2-dimethyl-5-(4-(methylsulfinyl)phenyl)furan-3(2H)-one	301693-70-9	NA	C19H17FO3S	344.4
2340		Polmacoxib Impurity-3	CC1(C)C(C(C2=CC(F)=CC=C2)=C(C3=CC=C(S(=O)(C)=O)C=C3)O1)=O	Impurity	DCTI-C-3585	4-(3-fluorophenyl)-2,2-dimethyl-5-(4-(methylsulfonyl)phenyl)furan-3(2H)-one	301690-25-5	NA	C19H17FO4S	360.4

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2341	Polmacoxib	Polmacoxib impurity-8	CC1(C)C(C(C2=CC=C(F)C=C2)=C(C3=CC=C(S(=O)(N)=O)C=C3)O1)=O	Impurity	DCTI-C-3609	4-(3-(4-fluorophenyl)-5,5-dimethyl-4-oxo-4,5-dihydrofuran-2-yl)benzenesulfonamide	301690-61-9	NA	C18H16FNO4S	361.39
2342		Polmacoxib Impurity 6	CC1(C)C(C(C2=CC=CC=C2F)=C(C3=CC=C(S(=O)(N)=O)C=C3)O1)=O	Impurity	DCTI-C-3608	4-(3-(2-fluorophenyl)-5,5-dimethyl-4-oxo-4,5-dihydrofuran-2-yl)benzenesulfonamide	301693-28-7	NA	C18H16FNO4S	361.39
2343		Desfluoro-Polmacoxib	CC1(C)C(C(C2=CC=CC=C2)=C(C3=CC=C(S(=O)(N)=O)C=C3)O1)=O	Impurity	DCTI-C-3615	4-(5,5-dimethyl-4-oxo-3-phenyl-4,5-dihydrofuran-2-yl)benzenesulfonamide	301692-84-2	NA	C18H17NO4S	343.4
2344	Ponatinib	Ponatinib Amine impurity	NC1=CC=C(C(C(F)(F)F)=C1)CN2CCN(CC2)C	Metabolite	DCTI-C-2872	4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)aniline	694499-26-8	Ponatinib Impurity 4	C13H18F3N3	273.3
2345		Ponatinib Acid impurity	O=C(O)C1=CC=C(C)C(C#CC2=CN=C3C=CC=NN32)=C1	Metabolite	DCTI-C-2873	3-(imidazo[1,2-b]pyridazin-3-ylethynyl)-4-methylbenzoic acid	1300690-48-5	Ponatinib Impurity 7	C16H11N3O2	277.28
2346		Posaconazole impurity-B	O=C1N([C@@H](CC)[C@@H](O)C)N=CN1c2ccc(N(C=O)CCN(C=O)c3ccc(OC[C@H]4C[C@@](c5c(F)cc(F)cc5)(CN6[N]C[N]C6)OC4)cc3)cc2	Impurity	DCTI-C-547	N-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)-N-(2-(N-(4-(1-((2S,3S)-2-hydroxypentan-3-yl)-5-oxo-1,5-dihydro-4H-1,2,4-triazol-4-yl)phenyl)formamido)ethyl)formamide	357189-95-8	Posaconazole Desethylene Diformyl Impurity; Desethylene Posaconazole N,N'-Diformyl	C37H40F2N8O6	730.77
2347		((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran -3-yl)methyl 4-chlorobenzenesulfonate	FC1=C([C@]2(CN3C=NC=N3)OC[C@]([H])(COS(=O)(C4=CC=C(Cl)C=C4)=O)C2)C=CC(F)=C1	impurity	DCTI-C-2096	Rel(-)-((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-chlorobenzenesulfonate	2243786-07-2	Posaconazole Intermediate (R-trans isomer)	C20H18ClF2N3O4S	469.89

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2348		((3S,5S)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran - -3-yl)methyl 4-chlorobenzenesulfonate	FC1=C([C@@]2(CN3C=NC=N3)OC[C@@]([H])(COS(=O)(C4=CC=C(Cl)C=C4)=O)C2)C=CC(F)=C1	impurity	DCTI-C-2097	Rel(+)-((3S,5S)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-chlorobenzenesulfonate	NA	Posaconazole Intermediate (S-trans isomer)	C20H18ClF2N3O4S	469.89
2349		1-(1-bromoprop-1-en-2-yl)-2,4-difluorobenzene	Br/C=C(C)/C1=C(F)C=C(C=C1)F	impurity	DCTI-C-1636	(E)-1-(1-bromoprop-1-en-2-yl)-2,4-difluorobenzene	NA	(E)-1-(1-bromoprop-1-en-2-yl)-2,4-difluorobenzene (POSI VII)	C9H7BrF2	233.06
2350		((3S,5R)-5-(iodomethyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl isobutyrate	FC1=CC=C([C@]2(CI)OC[C@@H](COC(C(C)C)=O)C2)C(F)=C1	impurity	DCTI-C-1658	((3S,5R)-5-(2,4-difluorophenyl)-5-(iodomethyl)tetrahydrofuran-3-yl)methyl isobutyrate	1042398-26-4	Posaconazole Impurity 5; ((3S,5R)-5-(iodomethyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl isobutyrate (POS III/A-73-108)	C16H19F2IO3	424.23
2351		Desethylene Posaconazole	FC1=C([C@]2(CN3C=NC=N3)O[C@@H](COC4=CC=C(NCCNC5=CC=C(N6C=NN([C@@H](CC)[C@H](C)O)C6=O)C=C5)C=C4)CC2)C=CC(F)=C1	Metabolite	DCTI-C-592	4-(4-((2-((4-(((2R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-2-yl)methoxy)phenyl)amino)ethyl)amino)phenyl)-2-((2S,3S)-2-hydroxypentan-3-yl)-2,4-dihydro-3H-1,2,4-triazol-3-one	NA	Posaconazole DP IV; Posaconazole Desethylene Impurity; Posaconazole Imp-44	C35H40F2N8O4	674.75
2352		Posaconazole Piperazine dioxide	FC1=CC=C([C@]2(CN3C=NC=N3)OC[C@@H](COC4=CC=C(N5(CCN(CC5)(C6=CC=C(N7C=NN([C@H]([C@@H](O)C)CC)C7=O)C=C6)=O)=O)C=C4)C2)C(F)=C1	Metabolite	DCTI-C-593	1-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)-4-(4-(1-((2S,3S)-2-hydroxypentan-3-yl)-5-oxo-1,5-dihydro-4H-1,2,4-triazol-4-yl)phenyl)piperazine 1,4-dioxide	1902957-95-2	Posaconazole Dioxido Impurity: Posaconazole Impurity 50	C37H42F2N8O6	732.79

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2353		Posaconazole Impurity 57	FC1=C([C@@]2(OC[C@@H](COC3=CC=C(N4CCN(C5=CC=C(N6C=NN([C@@H](CC)[C@H](COC(C)=O)C6=O)C=C5)CC4)C=C3)C2)CN7N=CN=C7)C=CC(F)=C1	IMPURTY	DCTI-C-1337	(2S,3S)-3-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)pentan-2-yl acetate	195735-34-3	NA	C39H44F2N8O5	742.83
2354		Desethylene Posaconazole N-formyl	O=C1N([C@H]([C@H](C)O)CC)N=CN1c2ccc(NCCN(C([H])=O)c3ccc(OC[C@H]4C[C@@](c5c(F)cc(F)cc5)(CN6[N]C[N]C6)OC4)cc3)cc2	Impurity	DCTI-C-618	N-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)-N-(2-((4-(1-((2S,3S)-2-hydroxypentan-3-yl)-5-oxo-1,5-dihydro-4H-1,2,4-triazol-4-yl)phenyl)amino)ethyl)formamide	357189-96-9	Posaconazole Impurity 42; Posaconazole Desethylene Monoformyl Impurity; Desethylene Posaconazole N(triazolonophenyl)-Formyl	C36H40F2N8O5	702.76
2355		Posconazole Impurity-(component-D)	[H]C(NC1=CC=C(OC[C@@H]2CO[C@](C3=C(F)C=C(F)C=C3)(CN4C=NC=N4)C2)C=C1)=O	Impurity	DCTI-C-650	N-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)formamide	357189-97-0	Posconazole Impurity-D; Posaconazole Formamide Impurity	C21H20F2N4O3	414.41
2356		Posaconazole Succinyl Ester	FC1=C([C@@]2(OC[C@@H](COC3=CC=C(N4CCN(C5=CC=C(N6C=NN([C@@H](CC)[C@H](COC(CCC(O)=O)=O)C6=O)C=C5)CC4)C=C3)C2)CN7N=CN=C7)C=CC(F)=C1	IMPURITY	DCTI-C-2603	4-(((2S,3S)-3-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)pentan-2-yl)oxy)-4-oxobutanoic acid	1488301-79-6	NA	C41H46F2N8O7	800.86
2357		Posaconazole formate	FC1=C([C@@]2(OC[C@@H](COC3=CC=C(N4CCN(C5=CC=C(N6C=NN([C@@H](CC)[C@H](COC=O)C6=O)C=C5)CC4)C=C3)C2)CN7N=CN=C7)C=CC(F)=C1	Impurity	DCTI-C-3124	(2S,3S)-3-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)pentan-2-yl formate	2069239-68-3	NA	C38H42F2N8O5	728.8

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2358	Posaconazole	((3R,5S)-5-((1H-1,2,4-Triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-chlorobenzenesulfonate	O=S(C1=CC=C(Cl)C=C1)(OC[C@H]2CO[C@@](C3=CC=C(F)C=C3F)(CN4N=CN=C4)C2)=O	Impurity	DCTI-C-3145	((3R,5S)-5-((1H-1,2,4-Triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-chlorobenzenesulfonate	2423024-27-3	S, R isomer of posaconazole intermediate	C20H18ClF2N3O4S	469.89
2359		Posaconazole destriazolone methyl carbamate	O=C(OC)NC1=CC=C(N2CCN(C3=CC=C(OC[C@@H]4CO[C@](C5=CC=C(F)C=C5F)(CN6N=CN=C6)C4)C=C3)CC2)C=C1	Impurity	DCTI-C-3156	Methyl (4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)carbamate	NA	NA	C32H34F2N6O4	604.66
2360		Posaconazole destriazolone dimethylurea	O=C(NC1=CC=C(N2CCN(C3=CC=C(OC[C@@H]4CO[C@](C5=CC=C(F)C=C5F)(CN6N=CN=C6)C4)C=C3)CC2)C=C1)N(C)C	Impurity	DCTI-C-3175	3-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-1,1-dimethylurea	NA	NA	C33H37F2N7O3	617.7
2361		Posaconazole destriazolone ethyl carbamate	O=C(OCC)NC1=CC=C(N2CCN(C3=CC=C(OC[C@@H]4CO[C@](C5=CC=C(F)C=C5F)(CN6N=CN=C6)C4)C=C3)CC2)C=C1	Impurity	DCTI-C-3186	ethyl (4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)carbamate	NA	NA	C33H36F2N6O4	618.69
2362		((3S,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-chlorobenzenesulfonate	O=S(C1=CC=C(Cl)C=C1)(OC[C@@H]2CO[C@](C3=CC=C(F)C=C3F)(CN4N=CN=C4)C2)=O	IMPURITY	DCTI-C-3200	((3S,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-chlorobenzenesulfonate	175712-02-4	R, S Isomer of Posaconazole Intermediate	C20H18ClF2N3O4S	469.89
2363		Posaconazole related compound-A	O=C1N([C@H](CC)[C@@H](O)C)N=CN1C2=CC=C(N3CCN(C4=CC=C(OC[C@@H]5CO[C@](C6=CC=C(F)C=C6F)(CN7N=CN=C7)C5)C=C4)CC3)C=C2	IMPURITY	DCTI-C-3229	4-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-2-((2S,3R)-2-hydroxypentan-3-yl)-2,4-dihydro-3H-1,2,4-triazol-3-one	171228-50-5	(R)-Posaconazole	C37H42F2N8O4	700.79
2364		Posaconazole 2R-Epimer	O=C1N([C@@H](CC)[C@H](O)C)N=CN1C2=CC=C(N3CCN(C4=CC=C(OC[C@@H]5CO[C@](C6=CC=C(F)C=C6F)(CN7N=CN=C7)C5)C=C4)CC3)C=C2	IMPURITY	DCTI-C-3230	4-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-2-((2R,3S)-2-hydroxypentan-3-yl)-2,4-dihydro-3H-1,2,4-triazol-3-one	171228-51-6	NA	C37H42F2N8O4	700.79

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2365		Posaconazole 2R,3R-diastereomer	O=C1N([C@H](CC)[C@H](O)C)N=CN1C2=CC=C(N3CCN(C4=CC=C(OC[C@@H]5CO[C@](C6=CC=C(F)C=C6F)(CN7N=CN=C7)C5)C=C4)CC3)C=C2	IMPURITY	DCTI-C-3234	4-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-2-((2R,3R)-2-hydroxypentan-3-yl)-2,4-dihydro-3H-1,2,4-triazol-3-one	170985-61-2	Posaconazole Diastereoisomer 1 (R,R,R,R):All-(R)-Posaconazole	C37H42F2N8O4	700.79
2366		2-((2R,3S)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	O=C1N([C@@H](CC)[C@H](OCC2=CC=CC=C2)C)N=CN1C3=CC=C(N4CCN(C5=CC=C(O)C=C5)CC4)C=C3	IMPURITY	DCTI-C-3231	2-((2R,3S)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	2243786-00-5	Posaconazole (2R,3S isomer) intermediate	C30H35N5O3	513.64
2367		2-((2S,3R)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	O=C1N([C@H](CC)[C@@H](OCC2=CC=CC=C2)C)N=CN1C3=CC=C(N4CCN(C5=CC=C(O)C=C5)CC4)C=C3	IMPURITY	DCTI-C-3242	2-((2S,3R)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	2243786-02-7	Posaconazole (2S,3R isomer) intermediate	C30H35N5O3	513.64
2368		Posaconazole oxadiazine analog	O=C(N1N=COC(C)[C@@H]1CC)NC2=CC=C(N3CCN(C4=CC=C(OC[C@@H]5CO[C@](C6=CC=C(F)C=C6F)(CN7N=CN=C7)C5)C=C4)CC3)C=C2	Impurity	DCTI-C-3368	(5S)-N-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-5-ethyl-6-methyl-5,6-dihydro-4H-1,3,4-oxadiazine-4-carboxamide	NA	NA	C37H42F2N8O4	700.79
2369		POSACONAZOLE IMPURITY 70	O=C1N([C@@H](CC)[C@@H](O)C)N=CN1C2=CC=C(N3CCN(C4=CC=C(OC[C@H]5CO[C@](C6=CC=C(F)C=C6F)(CN7N=CN=C7)C5)C=C4)CC3)C=C2	Impurity	DCTI-C-3369	4-(4-(4-(4-(((3S,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-2-((2S,3S)-2-hydroxypentan-3-yl)-2,4-dihydro-3H-1,2,4-triazol-3-one	213381-02-3	Posaconazole Diastereoisomer (S,R,S,S)	C37H42F2N8O4	700.79
2370		2-((2S,3S)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	O=C1N([C@@H](CC)[C@@H](OCC2=CC=CC=C2)C)N=CN1C3=CC=C(N4CCN(C5=CC=C(O)C=C5)CC4)C=C3	Impurity	DCTI-C-3314	2-((2S,3S)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	184177-83-1	Posaconazole (2S,3S isomer) intermediate	C30H35N5O3	513.64

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2371		Posaconazole formyl semicarbazide analog	O=C(N([C@@H](CC)[C@@H](O)C)NC=O)NC1=CC=C(N2CCN(C3=CC=C(OC[C@@H]4CO[C@](C5=CC=C(F)C=C5F)(CN6N=CN=C6)C4)C=C3)CC2)C=C1	IMPURITY	DCTI-C-3482	N-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-2-formyl-1-((2S,3S)-2-hydroxypentan-3-yl)hydrazine-1-carboxamide	1350560-57-4	NA	C37H44F2N8O5	718.81
2372		Posaconazole semicarbazide analog	NN([C@@H](CC)[C@@H](O)C)C(NC1=CC=C(N2CCN(C3=CC=C(OC[C@@H]4CO[C@](C5=CC=C(F)C=C5F)(CN6N=CN=C6)C4)C=C3)CC2)C=C1)=O	IMPURITY	DCTI-C-3501	N-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)piperazin-1-yl)phenyl)-1-((2S,3S)-2-hydroxypentan-3-yl)hydrazine-1-carboxamide	NA	NA	C36H44F2N8O4	690.8
2373		Posaconazole Impurity 23	OC1=CC=C(N2CCN(C3=CC=C(N4C=NN([C@H]([C@@H](O)C)CC)C4=O)C=C3)CC2)C=C1	Impurity	DCTI-C-3547	2-((2S,3S)-2-hydroxypentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	687132-01-0	NA	C23H29N5O3	423.52
2374		((2R,4R)-4-((1H-1,2,4-triazol-1-yl)methyl)-4-(2,4-difluorophenyl)tetrahydrofuran-2-yl)methanol	FC1=CC=C([C@]2(CN3C=NC=N3)CO[C@@H](CO)C2)C(F)=C1	Impurity	DCTI-C-3739	((2R,4R)-4-((1H-1,2,4-triazol-1-yl)methyl)-4-(2,4-difluorophenyl)tetrahydrofuran-2-yl)methanol	NA	Posaconazole Impurity 4; 2,5-Anhydro-1,3,4-trideoxy-2-C-9(2,4-diflurophenyl)-4-(hydroxymethyl)-1-(1H-1,2,4-Triazol-1-yl)-D-threo-pentitol	C14H15F2N3O2	295.29
2375		((3S,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(4-fluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	O=S(C1=CC=C(C)C=C1)(OC[C@@H]2CO[C@](C3=CC=C(F)C=C3)(CN4N=CN=C4)C2)=O	Impurity	DCTI-C-3266	((3S,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(4-fluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	na	o-desflourotosyl intermediate	C21H22FN3O4S	431.48
2376		((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(4-fluorophenyl)tetrahydrofuran-3-yl)methanol	OC[C@@H]1CO[C@](C2=CC=C(F)C=C2)(CN3N=CN=C3)C1	Impurity	DCTI-C-3267	((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(4-fluorophenyl)tetrahydrofuran-3-yl)methanol	na	o-desflouro posconazle hydroxy intermediate	C14H16FN3O2	277.3
2377		((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	O=S(C1=CC=C(C)C=C1)(OC[C@H]2CO[C@](C3=CC=C(F)C=C3F)(CN4N=CN=C4)C2)=O	Impurity	DCTI-C-3435	((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	1598111-30-0	posconazole diastereomer related compound 1	C21H21F2N3O4S	449.47

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2378		((3S,5S)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	O=S(C1=CC=C(C)C=C1)(OC[C@@H]2CO[C@@](C3=CC=C(F)C=C3F)(CN4N=CN=C4)C2)=O	Impurity	DCTI-C-3436	((3S,5S)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	166583-12-6	posconazole diastereomer related compound 2	C21H21F2N3O4S	449.47
2379		Posaconazole Tosyl Impurity	O=S(OC[C@H](CO1)C[C@@]1(C2=C(C=C(C=C2)F)F)CN3C=NC=N3)(C4=CC=C(C=C4)C)=O	Impurity	DCTI-C-3860	((3S,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methyl 4-methylbenzenesulfonate	149809-43-8	posconazole diastereomer related compound 8	C21H21F2N3O4S	449.12
2380		2-((2R,3R)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	O=C1N(C2=CC=C(N3CCN(C4=CC=C(C=C4)O)CC3)C=C2)C=NN1[C@H](CC)[C@@H](C)OCC5=CC=CC=C5	impurity	DCTI-C-3237	2-((2R,3R)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	2243786-01-6	Posaconazole(2R,3R)-isomer intermediate	C30H35N5O3	513.64
2381		2-((2S,3R)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	O=C1N([C@H](CC)[C@@H](OCC2=CC=CC=C2)C)N=CN1C3=CC=C(N4CCN(C5=CC=C(O)C=C5)CC4)C=C3	IMPURITY	DCTI-C-3242	2-((2S,3R)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-(4-hydroxyphenyl)piperazin-1-yl)phenyl)-2,4-dihydro-3H-1,2,4-triazol-3-one	2243786-02-7	Posaconazole (2S,3R isomer) intermediate	C30H35N5O3	513.64
2382		Pramipexole dimer- I	NC1SC([C@@H](NC2[N]C3CC[C@@H](CC3S2)NCCC)[C@H](CC4)NCCC)C4[N]1	Impurity	DCTI-C-846	(6S,7S)- 4,5,6,7-tetrahydro-N6-propyl-N7-(6S)- 4,5,6,7-tetrahydro -6-(propyl amino)-2-benzothiazolyl- 2,6,7-benzothiazole triamine	NA	NA	C20H32N6S2	420.64

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2383	Pramipexole	Pramipexole dimer- II	NC1SC([C@H](NC2[N]C3CC[C@@H](CC3S2)NCCC)[C@H](CC4)NCCC)C4[N]1	Impurity	DCTI-C-847	(6S, 7R)- 4,5,6,7-tetrahydro-N6-propyl-N7-(6S)- 4,5,6,7-tetrahydro -6-(propyl amino)-2-benzothiazolyl- 2,6,7-benzothiazole triamine	1244656-98-1	NA	C20H32N6S2	420.64
2384		Pramipexole related compound D	NC(S1)=NC2=C1C[C@H](NCCC)CC2	impurity	DCTI-C-1005	(R)-N6-propyl-4, 5, 6, 7-tetrahydrobenzo[d]thiazole-2, 6-diamine	104632-28-2	NA	C10H17N3S	211.33
2385		Pramipexole impurity E (BP)	NC(S1)=NC2=C1C[C@@H](NC(CC)=O)CC2	impurity	DCTI-C-1006	(S)-N-(2-amino-4, 5, 6, 7-tetrahydrobenzo[d]thiazol-6-yl) propionamide	106006-84-2	NA	C10H15N3OS	225.31
2386		Pramipexole Dimer	NC1SC(C[C@H](CC2)NCC(C)C(N[C@H]3CCC4C(SC([N]4)N)C3)CC)C2[N]1.[2CH3COOH]	impurity	DCTI-C-1011	(6S,6'S)-N6,N6'-(2-methylpentane-1,3-diyl)bis(4,5,6,7-tetrahydrobenzo[d]thiazole-2,6-diamine) di-acetate	NA	Pramipexole C-C Dimer	C24H40N6S2O4 (Acetate salt) C20H32N6S2 (Free Base)	540.74 (Acetate salt) 420.64 (Free Base)
2387		Pramipexole impurity 29	O=C(CC)NC(S1)=NC2=C1C[C@@H](NC(CC)=O)CC2	impurity	DCTI-C-1007	(S)-N, N'-(4, 5, 6, 7-tetrahydrobenzo[d]thiazole-2, 6-diyl) dipropionamide	1346617-47-7	NA	C13H19N3O2S	281.37
2388		Desacetyl prasugrel diastereomer 1	O=C(C1CC1)C(N2CC(C3CC2)=CC(S3)=O)C4=CC=CC=C4F	Metabolite	DCTI-C-985	5-(2-cyclopropyl-1-(2-fluorophenyl)-2-oxoethyl)-5,6,7,7a-tetrahydrothieno[3,2-c]pyridin-2(4H)-one	NA	NA	$C_{18}H_{18}FNO_2S$	331.41
2389		Desacetyl prasugrel diastereomer 2	O=C(C1CC1)C(N2CC(C3CC2)=CC(S3)=O)C4=CC=CC=C4F	Metabolite	DCTI-C-986	5-(2-cyclopropyl-1-(2-fluorophenyl)-2-oxoethyl)-5,6,7,7a-tetrahydrothieno[3,2-c]pyridin-2(4H)-one	NA	NA	$C_{18}H_{18}FNO_2S$	331.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2390	**prasugrel**	Desacetyl prasugrel	O=C(C1CC1)C(N2CC(C3CC2)=CC(S3)=O)([H])C4=CC=CC=C4F	Metabolite	DCTI-C-987	5-(2-cyclopropyl-1-(2-fluorophenyl)-2-oxoethyl)-5,6,7,7a-tetrahydrothieno[3,2-c]pyridin-2(4H)-one	150322-38-6	Desacetyl prasugrel-mixture of diastereomers	C18H18FNO2S	331.41
2391		Thienotetrahydropyridine.HCl	O=C1SC2CCNCC2=C1.Cl	IMPURITY	DCTI-C-3485	5,6,7,7a-tetrahydrothieno[3,2-c]pyridin-2(4H)-one hydrochloride	115473-15-9	NA	HCl Salt:C7H10ClNOS Free Base: C7H9NOS	HCl Salt:191.67 Free Base:155.22
2392		Acetylthienotetrahydropyridine.HCl	O=C(C)OC1=CC2=C(S1)CCNC2.Cl	IMPURITY	DCTI-C-3484	4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl acetate hydrochloride	1151904-84-5	NA	HCl Salt:C9H12ClNO2S Free Base: C9H11NO2S	HCl Salt:233.71 Free Base:197.25
2393	**Prazosin**	Prazosin related compound	COC1=C(OC)C=C(N=C(Cl)N=C2N)C2=C1	Impurity	DCTI-C-084	2-chloro-6,7-dimethoxyquinazolin-4-amine	23680-84-4	NA	C10H10ClN3O2	239.66
2394		Prazosin Intermediate / Doxazosin Intermediate	COC1=C(OC)C=C(N=C(N2CCNCC2)N=C3N)C3=C1	Impurity	DCTI-C-085	6,7-dimethoxy-2-(piperazin-1-yl)quinazolin-4-amine	60547-97-9	NA	C14H19N5O2	289.34
2395		Prazosin Impurity	O=C(C1=CC=CO1)N(CC2)CCN2C(C3=CC=CO3)=O	Impurity	DCTI-C-086	piperazine-1,4-diylbis(furan-2-ylmethanone)	31350-27-3	NA	C14H14N2O4	274.28

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2396		17 Acid 17 ethyl carbonate prednisolone	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@H](C[C@]4(C)[C@@](OC(OCC)=O)(C(O)=O)CC[C@@]34[H])O)=C1	Impurity	DCTI-C-134	(8S,9S,10R,11S,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	133991-63-6	NA	C23H30O7	418.49
2397		Prednisolone Impurity(Glycerol protected Six memebered Ring)	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CCC4C(C5OCC(O)CO5)=O)=C1	impurity	DCTI-C-2123	(8S,9S,10R,11S,13S,14S)-11-hydroxy-17-(5-hydroxy-1,3-dioxane-2-carbonyl)-10,13-dimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	Prednisolone Impurity @ RRT 1.7	C24H32O6	416.51
2398		Prednisolone 17-Carboxylic Acid impurity	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CCC4C(O)=O)=C1	impurity	DCTI-C-2124	(8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	NA	Prednisolone Impurity @ RRT 2.0	C20H26O4	330.42
2399		Prednisolone 1,2-Propane diol protected Impurity	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CCC4C(C5OCC(C)O5)=O)=C1	impurity	DCTI-C-2125	(8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-17-(4-methyl-1,3-dioxolane-2-carbonyl)-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	Prednisolone Impurity @ RRT 2.3	C24H32O5	400.51
2400		Prednisolone Impurity(Glycerol Protected Five Membered Ring)	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CCC4C(C5OCC(CO)O5)=O)=C1	impurity	DCTI-C-2126	(8S,9S,10R,11S,13S,14S)-11-hydroxy-17-(4-(hydroxymethyl)-1,3-dioxolane-2-carbonyl)-10,13-dimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	Prednisolone Impurity @ RRT 1.9	C24H32O6	416.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2401		Prednisolone Z-enol aldehyde impurity	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC/C4=C(C=O)/O)=C1	impurity	DCTI-C-2127	(Z)-2-hydroxy-2-((8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)acetaldehyde	118864-87-2	Prednisolone Impurity @ RRT 2.1	C21H26O4	342.43
2402		Prednisolone unknown impurity @ RRT 1.3	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CCC4C(C([H])=O)=O)=C1.O=C5C=C[C@@]6(C)C(CC[C@]7([H])[C@]6([H])[C@@H](O)C[C@@]8(C)[C@@]7([H])CCC8C(C(O)O)=O)=C5	impurity	DCTI-C-2142	2-((8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoacetaldehyde; (8S,9S,10R,11S,13S,14S)-17-(2,2-dihydroxyacetyl)-11-hydroxy-10,13-dimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-	NA	unknown impurity @ RRT 1.3.	C21H26O4; C21H28O5	342.43; 360.45
2403		Prednisolone Ph.Eur. Impurity E	CC(OCC([C@@]1(O)CC[C@@]2([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)C3=CC[C@]12C)=O)=O)=O	impurity	DCTI-C-1634	2-((8S,10S,13S,14S,17R)-17-hydroxy-10,13-dimethyl-3-oxo-6,7,8,10,12,13,14,15,16,17-decahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	4380-55-6	Prednisolone EP Impurity E; Deltacortinene Acetate; 17,21-Dihydroxypregna-1,4,9(11)-triene-3,20-dione 21-Acetate; 21-Acetoxy-17α-hydroxypregna-1,4,9(11)-triene-3,20-dione	C23H28O5	384.47
2404		Prednisolone Ph. Eur. Impurity D	O[C@]1(C(C)=O)CC[C@@]2([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)[C@@]3([H])[C@@H](O)C[C@@]21C)=O	impurity	DCTI-C-1828	(8S,9S,10R,11S,13S,14S,17R)-17-acetyl-11,17-dihydroxy-10,13-dimethyl-6,7,8,9,10,11, 12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	Deprodone; 11β,17-Dihydroxypregna-1,4-diene-3,20-dione; Prednisolone acetate EP Impurity D; 21-Deoxyprednisolone	C21H28O4	344.45
2405		11-ß-hydroxy-1,4-dien-3,17-androstendione	O[C@H]1C[C@@]2(C)[C@](CCC2=O)([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)[C@]31[H])=O	Impurity	DCTI-C-1504	(8S,9S,10R,11S,13S,14S)-11-hydroxy-10,13-dimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3H-cyclopenta[a]phenanthrene-3,17(6H)-dione	898-84-0	NA	C19H24O3	300.4

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2406		Prednisolone 17B hydroxy acid	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@H](C[C@]4(C)[C@@](C(O)=O)(CC[C@@]34[H])O)O)=C1	Impurity	DCTI-C-135	(8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic acid	37927-29-0	PJ 90; Δ1-Cortienic Acid	C20H26O5	346.42
2407		Loteprednol etabonate 11-keto	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])C(C[C@]4(C)[C@@](OC(OCC)=O)(C(OCCl)=O)CC[C@@]34[H])=O)=C1	Impurity	DCTI-C-136	chloromethyl (8S,9S,10R,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-10,13-dimethyl-3,11-dioxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylate	207670-54-0	NA	C24H29ClO7	464.94
2408		Prednisolone di carbonate 1NH	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@H](C[C@]4(C)[C@@](C(OC(OCC)=O)=O)(CC[C@@]34[H])OC(OCC)=O)O)=C1	Impurity	DCTI-C-107	(8S,9S,10R,11S,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylic (ethyl carbonic) anhydride	133991-62-5	NA	C26H34O9	490.55
2409		Prednisolone 20 ethyl ester 1NH	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])C(C[C@]4(C)[C@@](C(OCC)=O)(CC[C@@]34[H])OC(OCC)=O)O)=C1	Impurity	DCTI-C-108	ethyl (8S,9S,10R,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylate	182069-19-8	NA	C25H34O7	446.54

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2410	Prednisolone	Loteprednol methyl ester	O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@H](C[C@]4(C)[C@@](C(OC)=O)(CC[C@@]34[H])OC(OCC)=O)O)=C1	Impurity	DCTI-C-138	methyl (8S,9S,10R,11S,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylate	NA	NA	C24H32O7	432.51
2411		1,2-Dihydro Loteprednol	O=C1CC[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@]4(C)[C@@](OC(OCC)=O)(C(OCCl)=O)CC[C@@]34[H])=C1	Impurity	DCTI-C-139	chloromethyl (8S,9S,10R,11S,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-17-carboxylate	82034-20-6	NA	C24H33ClO7	468.97
2412		Loteprednol 1,2 Dihydro ethyl carbonate	O=C1CC[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@]4(C)[C@@](OC(OCC)=O)(C(OC(OCC)=O)=O)CC[C@@]34[H])=C1	Impurity	DCTI-C-140	(8S,9S,10R,11S,13S,14S,17R)-17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthrene-17-carboxylic (ethyl carbonic) anhydride	82048-81-5	NA	C26H36O9	492.57
2413		Methylprednisolone Acetate EP Impurity B	O=C1C=C[C@]2(C)[C@@]3([H])[C@@H](O)C[C@]4(C)[C@](C(CO)=O)(O)CC[C@@]4([H])[C@]3([H])C[C@H](C)C2=C1	impurity	DCTI-C-2073	(6S,8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-17-(2-hydroxyacetyl)-6,10,13-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	83-43-2	Pregna-1,4-diene-3,20-dione,-11,17,21-trihydroxy-6-methyl,(6a,11b); 6α-Methyl Prednisolone	C22H30O5	374.48
2414		11-Keto analog (Impurity K Ph. Eur)	O=C1C=C[C@@]2(C)C([C@@]([H])(C)C[C@]([C@@](CC[C@@]3(C(COC(C)=O)=O)O)([H])[C@]3(C)C4)([H])[C@]2([H])C4=O)=C1	impurity	DCTI-C-1818	2-((6S,8S,9S,10R,13S,14S,17R)-17-hydroxy-6,10,13-trimethyl-3,11-dioxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate.	NA	Methylprednisolone Acetate EP Impurity K; 6a-Methyl prednisone 21-acetate; 17-hydroxy-6a-methyl-3,11,20-trioxopregna-1,4-dine-21-yl acetate.	C24H30O6	414.5

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2415		Dehydrated Methylprednisolone Aldehyde Impurity	O=C1C=C[C@]2(C)[C@@]3([H])[C@@H](O)C[C@]4(C)[C@@H](C(C(O)O)=O)CC[C@@]4([H])[C@]3([H])C[C@H](C)C2=C1	Impurity	DCTI-C-361	(6S,8S,9S,10R,11S,13S,14S,17S)-17-(2,2-dihydroxyacetyl)-11-hydroxy-6,10,13-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	1338549-01-1	Methyl prednisolone aldehyde; Methyl prednisolone glyoxal	C22H30O5	374.48
2416		Methyl Prednisolone Impurity-C	O=C1C=C[C@@]2(C)C([C@@H](C)C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CCC4=O)=C1	Impurity	DCTI-C-1798	(6S,8S,9S,10R,11S,13S,14S)-11-hydroxy-6,10,13-trimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3H-cyclopenta[a]phenanthrene-3,17(6H)-dione	NA	NA	C20H26O3	314.43
2417		Methyl Prednisolone Impurity-D (Z-isomer)	O=C1C=C[C@@]2(C)C([C@@H](C)C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC/C4=C(C=O)/O)=C1	impurity	DCTI-C-1796	(Z)-2-hydroxy-2-((6S,8S,9S,10R,11S,13S,14S)-11-hydroxy-6,10,13-trimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)acetaldehyde	NA	NA	C22H28O4	356.46
2418		Methyl Prednisolone Impurity-D	O=C1C=C[C@@]2(C)C([C@@H](C)C[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])CC/C4=C(C=O)/O)=C1.O=C5C=C[C@@]6(C)C([C@@H](C)C[C@]7([H])[C@]6([H])[C@@H](O)C[C@@]8(C)[C@@]7([H])CC/C8=C(O)/C=O)=C5	impurity	DCTI-C-1797	(EZ)-2-hydroxy-2-((6S,8S,9S,10R,11S,13S,14S)-11-hydroxy-6,10,13-trimethyl-3-oxo-3,6,7,8,9,10,11,12,13,14,15,16-dodecahydro-17H-cyclopenta[a]phenanthren-17-ylidene)acetaldehyde	NA	NA	C22H28O4	356.46
2419		Methylprednisolone Impurity	CC12C(C(C)CC3C2C(O)CC4(C)C3CCC4C(C(O)C(O)C(C5(O)CCC6C5(C)CC(O)C7C6CC(C)C(C7(C)C=C8)=CC8=O)=O)=O)=CC(C=C1)=O	Impurity	DCTI-C-616	1-(11,17-dihydroxy-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2,3-dihydroxy-4-(11-hydroxy-6,10,13-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)butane-1,4-dione	NA	NA	C44H58O9	730.94

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2420		Methylprednisolone glyoxal	O=C1C=C[C@]2(C)[C@@]3([H])[C@@H](O)C[C@]4(C)[C@](C(C(O)O)=O)(O)CC[C@@]4([H])[C@]3([H])C[C@H](C)C2=C1	Impurity	DCTI-C-679	(6S,8S,9S,10R,11S,13S,14S,17R)-17-(2,2-dihydroxyacetyl)-11,17-dihydroxy-6,10,13-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C22H30O6	390.48
2421		Diacetyl Prednisolone	CC(OCC([C@@]1(O)CC[C@@]2([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)[C@@]3([H])C(OC(C)=O)C[C@]12C)=O)=O)=O	Impurity	DCTI-C-715	2-((8S,9S,10R,13S,14S,17R)-11-acetoxy-17-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	NA	NA	C25H32O7	444.52
2422		Loteprednol Dimer	O=C1C=C[C@@]2(C)C(CCC3C2[C@@H](O)C[C@@]4(C)C3CC[C@@]4(C(OCOC([C@]5(CCC6[C@]5(C)C[C@H](O)C7C6CCC([C@]7(C)C=C8)=CC8=O)OC(OCC)=O)=O)=O)OC(OCC)=O)=C1	Impurity	DCTI-C-1505	methylene (10R,10'R,11S,11'S,13S,13'S,17R,17'R)-bis(17-((ethoxycarbonyl)oxy)-11-hydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthrene-17-carboxylate)	NA	Loteprednol Etabonate Methylene Dimer	C47H60O14	848.98
2423		6,7-Dehydro prednisolone 24-Acetate	CC(OCC([C@@]1(O)CC[C@@H]2[C@]1(C)C[C@H](O)[C@H]3[C@H]2C=CC4=CC(C=C[C@]34C)=O)=O)=O	Impurity	DCTI-C-2607	2-((8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-8,9,10,11,12,13,14,15,16,17-decahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl acetate	2427-45-4	NA	C23H28O6	400.47
2424		Difluoroprednisolone-3(10H) one	O=C1C=C[C@@]2(C)C([C@@H](F)CC3[C@]2(F)[C@@H](O)C[C@@]4(C)C3CCC4=O)=C1	Impurity	DCTI-C-2682	(6S,9R,10S,11S,13S)-6,9-difluoro-11-hydroxy-10,13-dimethyl-7,8,9,10,11,12,13,14,15,16-decahydro-3H-cyclopenta[a]phenanthrene-3,17(6H)-dione	NA	NA	C19H22F2O3	336.38

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2425		Prednisolone-21-ethylcarbonate	O=C(OCC([C@@]1(O)CC[C@@]2([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)[C@@]3([H])C(O)C[C@]12C)=O)=O)OCC	Impurity	DCTI-C-2543	2-((8S,9S,10R,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl ethyl carbonate.	2205-88-1	Prednicarbate EP Impurity D	C24H32O7	432.51
2426		Prednisone Related Impurity	O=C1C=C[C@@]2(C)C(CC[C@]([C@@](CC[C@]3(O)C(C(O)C(C([C@]4(O)[C@](CC([C@@]([C@@]5(C)C=C6)([H])[C@@]7([H])CCC5=CC6=O)=O)(C)[C@@]7([H])CC4)=O)O)=O)([H])[C@]3(C)C8)([H])[C@]2([H])C8=O)=C1	Impurity	DCTI-C-3099	(8S,8'S,9S,9'S,10R,10'R,13S,13'S,14S,14'S,17R,17'R)-17,17'-(2,3-dihydroxysuccinyl)bis(17-hydroxy-10,13-dimethyl-7,8,9,10,12,13,14,15,16,17-decahydro-3H-cyclopenta[a]phenanthrene-3,11(6H)-dione)	NA	Prednisone symmetrical dimer	C42H50O10	714.85
2427		Prednisolone Un-symmetrical dimer	O[C@]1(C(C(C(O)C([C@H]2CCC([C@]2(C)C3)C4CCC5=CC(C=C[C@]5(C)[C@@]4([H])C3=O)=O)=O)O)=O)CCC([C@]1(C)C6)C7CCC8=CC(C=C[C@]8(C)[C@@]7([H])C6=O)=O	Impurity	DCTI-C-3346	(9S,10R,13S,17R)-17-(4-((9S,10R,13S,17S)-10,13-dimethyl-3,11-dioxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2,3-dihydroxy-4-oxo butanoyl)-17-hydroxy-10,13-dimethyl-7,8,9,10,12, 13,14, 15,16,17-decahydro-3H-cyclopenta[a]phenanthrene-3,11(6H)-dione	NA	Prednisone related impurity	C42H50O9	698.85
2428		3-(aminomethyl)-5-methylhex-4-enoic acid	C/C(C)=C/C(CN)CC(O)=O	Impurity	DCTI-C-223	3-(aminomethyl)-5-methylhex-4-enoic acid	216576-74-8	NA	C8H15NO2	157.21
2429		3-(aminomethyl)-5-methylhex-5-enoic acid	CC(CC(CN)CC(O)=O)=C	Impurity	DCTI-C-224	3-(Amino methyl)-5-methylhex-5-enoic acid	1136478-30-2	NA	C8H15NO2	157.21
2430		(S)-isopropyl 2-hydroxy-2-phenyl-acetate	O[C@H](C(OC(C)C)=O)C1=CC=CC=C1	Impurity	DCTI-C-1668	isopropyl (S)-2-hydroxy-2-phenylacetate	53439-96-6	(+)-Isopropyl mandelate; (S)-Isopropyl mandelate; (S)-Mandelic acid isopropyl ester	C11H14O3	194.23
2431		(R)-isopropyl 2-hydroxy-2-phenyl-acetate	O[C@@H](C(OC(C)C)=O)C1=CC=CC=C1	Impurity	DCTI-C-1669	isopropyl (R)-2-hydroxy-2-phenylacetate	89015-27-0	(R)-Isopropyl mandelate; (R)-Mandelic acid; isopropyl ester Isopropyl (R)-mandelate	C11H14O3	194.23

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2432		3-isobutyl-N1-((S)-1-phenylethyl)pentanediamide	C[C@H](NC(CC(CC(N)=O)CC(C)C)=O)C1=CC=CC=C1	Impurity	DCTI-C-1670	3-isobutyl-N1-((S)-1-phenylethyl)pentanediamide	NA	Pregabalin Impurity	C17H26N2O2	290.41
2433		3-isobutyl-N1-((R)-1-phenylethyl)pentanediamide	CC[S=N]H(NC(CC(CC(N)=O)CC(C)C)=O)C[4]=CC=CC=C@5	Impurity	DCTI-C-1671	3-isobutyl-N1-((R)-1-phenylethyl)pentanediamide	NA	Pregabalin Impurity	C17H26N2O2	290.41
2434		methyl 3-(2-amino-2-oxoethyl)-5-methylhexanoate	CC(CC(CC(OC)=O)CC(N)=O)C	Impurity	DCTI-C-1672	methyl 3-(2-amino-2-oxoethyl)-5-methylhexanoate	1824451-15-1	NA	C10H19NO3	201.27
2435		ethyl 3-(2-amino-2-oxoethyl)-5-methylhexanoate	CC(CC(CC(OCC)=O)CC(N)=O)C	Impurity	DCTI-C-1673	ethyl 3-(2-amino-2-oxoethyl)-5-methylhexanoate	959143-48-7	NA	C11H21NO3	215.29
2436		5-methyl-3-(2-oxo-2-(((S)-1-phenylethyl)amino)ethyl)hexanoic acid	C[C@H](NC(CC(CC(O)=O)CC(C)C)=O)C1=CC=CC=C1	Impurity	DCTI-C-1674	5-methyl-3-(2-oxo-2-(((S)-1-phenylethyl)amino)ethyl)hexanoic acid	NA	NA	C17H25NO3	291.39
2437		5-methyl-3-(2-oxo-2-(((R)-1-phenylethyl)amino)ethyl)hexanoic acid	C[C@@H](NC(CC(CC(O)=O)CC(C)C)=O)C1=CC=CC=C1	Impurity	DCTI-C-1675	5-methyl-3-(2-oxo-2-(((R)-1-phenylethyl)amino)ethyl)hexanoic acid	NA	NA	C17H25NO3	291.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2438		dimethyl 3-isobutylpentanedioate	O=C(OC)CC(CC(C)C)CC(OC)=O	Impurity	DCTI-C-1676	dimethyl 3-isobutylpentanedioate	145328-03-6	NA	C11H20O4	216.28
2439		4-isobutyldihydro-2H-pyran-2,6(3H)-dione	O=C(O1)CC(CC(C)C)CC1=O	Impurity	DCTI-C-1677	4-isobutyldihydro-2H-pyran-2,6(3H)-dione	185815-59-2	Pregabalin Impurity; 3-Isobutylglutaric anhydride	C9H14O3	170.21
2440		4-Isobutyl piperidin-2,6-dione (Dione)	O=C(N1)CC(CC(C)C)CC1=O	Impurity	DCTI-C-225	4-Isobutyl piperidin-2, 6-dione (Dione)	916982-10-0	NA	C9H15NO2	169.22
2441		4-Isobutylpyrrolidin-2-one (lactam)	O=C1NCC(CC(C)C)C1	Impurity	DCTI-C-226	4-Isobutyl pyrrolidin-2-one	61312-87-6	Pregabalin USP Related Compound C	C8H15NO	141.21
2442		(R)-3-(2-methoxy-2-oxoethyl)-5-methylhexanoic acid	CC(C[C@H](CC(O)=O)CC(OC)=O)C	Impurity	DCTI-C-298	(R)-3-(2-methoxy-2-oxoethyl)-5-methylhexanoic acid	156048-92-9	NA	C10H18O4	202.25
2443		PGN Monoamide impurity	CC(C)CC(CC(N)=O)CN.O=CC(F)(F)F	Impurity	DCTI-C-429	3-(aminomethyl)-5-methylhexanamide 2,2,2-trifluoroacetate	1026009-73-3 (Free Base)	Pregabalin Monoamide impurity	C8H18N2O (Free base) C10H19F3N2O3 (TFA Salt)	158.25 (Free base) 272.27 (TFA Salt)
2444	**Pregabalin**	PGN Diamine impurity	CC(C)CC(CN)CN	Impurity	DCTI-C-430	2-isobutylpropane-1,3-diamine	159029-27-3	Pregabalin Di amine impurity	C7H18N2	130.24

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2445		Pregabalin Imp (Mixture of Diastereomer)	NCC(CC(NCC(CC(O)=O)/C=C(C)/C)=O)/C=C(C)/C	Impurity	DCTI-C-453	3-((3-(aminomethyl)-5-methylhex-4-enamido)methyl)-5-methylhex-4-enoic acid	NA	Pregabalin 4ENE Dimer Impurity	C16H28N2O3	296.41
2446		Pregabalin Dimer Impurity	NCC(CC(NCC(CC(C)C)CC(O)=O)=O)CC(C)C	Impurity	DCTI-C-339	3-((3-(aminomethyl)-5-methylhexanamido)methyl)-5-methylhexanoic acid	1486961-58-3	NA	C16H32N2O3	300.44
2447		Pregabalin cyclized diamide impurity	O=C(NCC(CC(NC1)=O)CC(C)C)CC1CC(C)C	Impurity	DCTI-C-708	4,9-diisobutyl-1,6-diazecane-2,7-dione	NA	NA	C16H30N2O2	282.43
2448		Pregabalin Lactose Impurity PD224378 (Unknown A)	O[C@@H]1[C@@H](O)[C@@H](O)[C@@H](CO)O[C@H]1O[C@H]2[C@H](O)[C@@H](O)[C@H](N3C[C@H](CC(C)C)CC3=O)O[C@@H]2CO	Impurity	DCTI-C-796	(R)-1-((2R,3R,4R,5S,6R)-3,4-dihydroxy-6-(hydroxymethyl)-5-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)-4-isobutylpyrrolidin-2-one	501665-88-9	Pregabalin lactose Unknown Impurity-A	C20H35NO11	465.5
2449		Pregabalin Dimer Impurity	O=C1C[C@H](CC(C)C)CN1CN2C(C[C@H](CC(C)C)C2)=O	Impurity	DCTI-C-851	(4S,4'S)-1,1'-methylenebis(4-isobutylpyrrolidin-2-one)	2361911-35-3	Pregabalin Lactone Dimer Impurity	C17H30N2O2	294.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2450		3-(2-amino-2-oxoethyl)-5-methylhexanoic acid	CC(CC(CC(N)=O)CC(O)=O)C	Impurity	DCTI-C-852	3-(2-amino-2-oxoethyl)-5-methylhexanoic acid	181289-15-6	NA	C9H17NO3	187.24
2451		3-isobutylpentanedioic acid	O=C(O)CC(CC(C)C)CC(O)=O	Impurity	DCTI-C-853	3-isobutylpentanedioic acid	75143-89-4	NA	: C9H16O4	188.22
2452		(R)-3-(2-amino-2-oxoethyl)-5-methylhexanoic acid	OC(C[C@H](CC(C)C)CC(N)=O)=O	impurity	DCTI-C-1300	(R)-3-(2-amino-2-oxoethyl)-5-methylhexanoic acid	181289-33-8	NA	C9H17NO3	187.24
2453		Isopropyl 2-hydroxy-2-phenyl-acetate	OC(C(OC(C)C)=O)C1=CC=CC=C1	impurity	DCTI-C-1301	isopropyl 2-hydroxy-2-phenylacetate	4118-51-8	(±)-Isopropyl mandelate; (±)-Mandelic acid isopropyl ester; Isopropyl 2-hydroxy-2-phenylacetate; Isopropyl mandelate; Mandelic acid isopropyl ester; NSC 6582	C11H14O3	194.23
2454		(S)-3-(2-Methoxy-2-oxoethyl)-5-methylhexanoic acid	CC(C[C@@H](CC(O)=O)CC(OC)=O)C	impurity	DCTI-C-926	(S)-3-(2-methoxy-2-oxoethyl)-5-methylhexanoic acid	181289-25-8	Pregabalin S-Mono Acid	C10H18O4	202.25
2455		5-Methyl-3-(2-oxo-2-ureidoethyl) hexanoic Acid	CC(CC(CC(O)=O)CC(NC(N)=O)=O)C	impurity	DCTI-C-927	5-Methyl-3-(2-oxo-2-ureidoethyl) hexanoic Acid	NA	NA	C10H18N2O4	230.26

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2456		2,5-Bis(Pregabalin)-1,4-Benzoquinone	O=C(C=C1NC[C@@H](CC(C)C)CC(O)=O)C(NC[C@@H](CC(C)C)CC(O)=O)=CC1=O	Impurity	DCTI-C-2977	(3S,3'S)-3,3'-(((3,6-dioxocyclohexa-1,4-diene-1,4-diyl)bis(azanediyl))bis(methylene))bis(5-methylhexanoic acid)	NA	NA	C22H34N2O6	422.52
2457	**Pridinol**	Pridinol impurity B	O=C(CCN1CCCCC1)C2=CC=CC=C2.Cl	IMPURITY	DCTI-C-3540	1-phenyl-3-(piperidin-1-yl)propan-1-one hydrochloride	886-06-6	NA	C14H19NO (Free base) C14H20ClNO (HCl salt)	217.31(Free base) 253.77 (HCl salt)
2458		Pridinol impurity B	O=C(C1=CC=CC=C1)C(C2)C(C(CC2C(C3=CC=CC=C3)=O)CN4CCCCC4)(O)C5=CC=CC=C5	Impurity	DCTI-C-3705	(4-hydroxy-4-phenyl-5-(piperidin-1-ylmethyl)cyclohexane-1,3-diyl)bis(phenylmethanone)	NA	Pridinol mesylate impurity B	C32H35NO3	481.64
2459	**Primaquine**	(N3-(6-METHOXYQUINOLIN-8-YL) PENTANE-1,3-DIAMINE)	CCC(CCN)NC1=C(N=CC=C2)C2=CC(OC)=C1	Impurity	DCTI-C-2459	N3-(6-methoxyquinolin-8-yl)pentane-1,3-diamine	2732404-25-8	NA	C15H21N3O	259.35
2460		PRIMAQUINE PHOSPHATE IMPURITY	O=C1N(CC/C=C/C)C(C2=CC=CC=C21)=O	Impurity	DCTI-C-2830	(E)-2-(pent-3-en-1-yl)isoindoline-1,3-dione	NA	NA	C13H13NO2	215.25
2461	**Prochlorperazine**	N-Nitroso Desmethyl Prochlorperazine	ClC1=CC2=C(C=C1)SC3=CC=CC=C3N2CCCN4CCN(N=O)CC4	NDSRI	DCTI-C-3600	2-chloro-10-(3-(4-nitrosopiperazin-1-yl)propyl)-10H-phenothiazine	109095-35-4	NA	C19H21ClN4OS	388.91
2462		N-Nitroso Desmethyl Prochlorperazine	ClC1=CC2=C(C=C1)SC3=CC=CC=C3N2CCCN4CCN(N=O)CC4	NDSRI	DCTI-C-3600	2-chloro-10-(3-(4-nitrosopiperazin-1-yl)propyl)-10H-phenothiazine	109095-35-4	NA	C19H21ClN4OS	388.91
2463		Hydroxyprogesterone acetate (Impurity H)	O=C1CC[C@@]2(C)C(CCC3C2CC[C@@]4(C)C3CC[C@@]4(C(C)=O)OC(C)=O)=C1	impurity	DCTI-C-2228	(10R,13S,17R)-17-acetyl-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	NA	17-(Acetyloxy)pregn-4-ene-3,20-dione;17-Hydroxypregn-4-ene-3,20-dione Acetate; 17-(Acetyloxy)progesterone;17-Acetoxypregn-4-ene-3,20-dione;17-Acetoxy-progesterone; 17-Hydroxy pro gesteroneAcetate;17α-	C23H32O4	372.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2464	Progesterone	Progesterone Impurity C	C[C@@]12[C@]3([H])[C@](CCC1=CC(CC2)=O)([H])[C@@]4([H])[C@](CC3)([C@@](CC4)([H])[C@H](O)C)C	Metabolite	DCTI-C-2656	(8S,9S,10R,13S,14S,17S)-17-((R)-1-hydroxyethyl)-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	145-15-3	Progesterone EP impurity C; (20R)-Hydroxy Progesterone; (20R)-20-hydroxy pregn-4-en-3-one; 20β-Dihydroprogesterone; 20β-Hydroxyprogesterone	C21H32O2	316.49
2465		Progesterone Impurity B	C[C@@]12[C@]3([H])[C@](CCC1=CC(CC2)=O)([H])[C@@]4([H])[C@](CC3)([C@@](CC4)([H])[C@H](O)C)C	Metabolite	DCTI-C-3718	(8S,9S,10R,13S,14S,17S)-17-((R)-1-hydroxyethyl)-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	Progesterone EP impurity B; (20S)-Hydroxy Progesterone	C21H32O2	316.48
2466		Progesterone Impurity D and E	O=C1CC[C@]2(C)[C@@]3([H])CC[C@]4(C)[C@@H](C(C)OC(C)=O)CC[C@@]4([H])[C@]3([H])CCC2=C1	Impurity	DCTI-C-2325	1-((8S,9S,10R,13S,14S,17S)-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)ethyl acetate	NA	20-acetoxy-4-pregnen-3-one	C23H34O3	358.52
2467		Progesterone Impurity-3	C[C@H](C(O)=O)[C@H]1CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])CC[C@]12C)=O	Impurity	DCTI-C-3553	(S)-2-((8S,9S,10R,13S,14S,17R)-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)propanoic acid	5327-60-6	3-Oxopregn-4-ene-20-carboxylic acid	C22H32O3	344.49
2468		21-Hydroxy-20-methylpregn-4-en-3-one	C[C@H](CO)[C@H]1CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])CC[C@]12C)=O	Impurity	DCTI-C-3559	(8S,9S,10R,13S,14S,17R)-17-((S)-1-hydroxypropan-2-yl)-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	60966-36-1	NA	C22H34O2	330.51
2469		Progesterone Impurity-2	C[C@H](CO)[C@H]1CC[C@@]2([H])[C@]3([H])C[C@@H](O)C4=CC(CC[C@]4(C)[C@@]3([H])CC[C@]12C)=O	Impurity	DCTI-C-3582	(6R,8S,9S,10R,13S,14S,17R)-6-hydroxy-17-((S)-1-hydroxypropan-2-yl)-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C22H34O3	346.51
2470		Progesterone Impurity-49	C[C@H](C=O)[C@H]1CCC2C3CC(C4=CC(CC[C@]4(C)C3CC[C@]12C)=O)=O	Impurity	DCTI-C-3634	(2S)-2-((10R,13S,17R)-10,13-dimethyl-3,6-dioxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)propanal	NA	NA	C22H30O3	342.48
2471		Progesterone Impurity-1	C[C@H](CO)[C@H]1CCC2C3[C@H](O)CC4=CC(CC[C@]4(C)C3CC[C@]12C)=O	Impurity	DCTI-C-3639	(7R,10R,13R,17R)-7-hydroxy-17-((S)-1-hydroxypropan-2-yl)-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	77530-51-9	Progesterone Impurity 36	C22H34O3	346.51
2472		Progesterone Impurity-4	C[C@H](C=O)[C@H]1CCC2C3C(CC4=CC(CC[C@]4(C)C3CC[C@]12C)=O)=O	Impurity	DCTI-C-3656	(2S)-2-((10R,13R,17R)-10,13-dimethyl-3,7-dioxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)propanal	NA	Progesterone Impurity-4 (Mixture of isomers)	C22H30O3	342.48

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2473		Progesterone Impurity M	C[C@@]12[C@]3([H])[C@](CCC1=CC(CC2)=O)([H])[C@@]4([H])[C@](CC3)([C@@H](CC4)C(C)=O)C	Impurity	DCTI-C-3665	(8S,9S,10R,13S,14S,17R)-17-acetyl-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	2000-66-0	(17α)-pregn-4-ene-3,20-dione; 17α-Progesterone; Progesterone EP Impurity M;	C21H30O2	314.46
2474		Progesterone Impurity-7	C/C([C@H]1CCC2C3C[C@@H](O)C4=CC(CC[C@]4(C)C3CC[C@]12C)=O)=C/N5CCCCC5	Impurity	DCTI-C-3673	(6R,10R,13S,17S)-6-hydroxy-10,13-dimethyl-17-((Z)-1-(piperidin-1-yl)prop-1-en-2-yl)-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C27H41NO2	411.63
2475		Progesterone Impurity-5	C[C@H](C=O)[C@H]1CCC2C3C[C@@H](O)C4=CC(CC[C@]4(C)C3CC[C@]12C)=O	Impurity	DCTI-C-3633	(2S)-2-((6R,10R,13S,17R)-6-hydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)propanal	NA	Progesterone impurity-5 (Mixture of isomers)	C22H32O3	344.49
2476		3-Hydroxy-5-Pregnen-7,20-dione	O[C@H](CC1=C2)CC[C@]1(C)[C@@]3([H])CC[C@]4(C)[C@@H](C(C)=O)CC[C@@]4([H])[C@]3([H])C2=O	Impurity	DCTI-C-3903	(3S,8S,9S,10R,13S,14S,17S)-17-acetyl-3-hydroxy-10,13-dimethyl-1,2,3,4,8,9,10,11,12,13,14,15,16,17-tetradecahydro-7H-cyclopenta[a]phenanthren-7-one	33530-84-6	7-Ketopregnenolone; 3-beta-Hydroxypregn-5-ene-7,20-dione	C21H30O3	330.47
2477	**Proline**	N-Nitroso-L-Proline	O=C(O)[C@H]1N(N=O)CCC1	NDSRI	DCTI-C-3728	nitroso-L-proline	7519-36-0	1.N-Nitroso-L-Proline (Mixture of Isomers) 2.(2S)-1-nitrosopyrrolidine-2-carboxylic acid 3.L-nitrosoproline	C5H8N2O3	144.13
2478	**Propafenone**	Propafenone EP impurity A	O=C(CCC1=CC=CC=C1)C2=C(O)C=CC=C2	Impurity	DCTI-C-906	1-(2-hydroxyphenyl)-3-phenylpropan-1-one	3516-95-8	NA	C15H14O2	226.28
2479		Propafenone EP impurity C	O=C(CCC1=CC=CC=C1)C2=C(OCC3OC3)C=CC=C2	Impurity	DCTI-C-907	1-(2-(oxiran-2-ylmethoxy)phenyl)-3-phenylpropan-1-one	22525-95-7	NA	C18H18O3	282.34
2480		(2R,4R) Propiconazole	CCC[C@H]1O[C@@](CN2N=CN=C2)(C3=CC=C(Cl)C=C3Cl)OC1	Impurity	DCTI-C-3033	1-(((2R,4R)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole	116498-45-4	1H-1,2,4-Triazole, 1-[[(2R,4R)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-(9CI, ACI)	C15H17Cl2N3O2	342.22

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2481	Propiconazole	(2S,4R) Propiconazole	CCC[C@H]1O[C@](CN2N=CN=C2)(C3=CC=C(Cl)C=C3Cl)OC1	Impurity	DCTI-C-3034	1-(((2S,4R)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole	116498-43-2	1H-1,2,4-Triazole, 1-[[(2S,4R)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-(9CI, ACI)	C15H17Cl2N3O2	342.22
2482		(2S,4S) Propiconazole	CCC[C@@H]1O[C@](CN2N=CN=C2)(C3=CC=C(Cl)C=C3Cl)OC1	Impurity	DCTI-C-3035	1-(((2S,4S)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole	116498-46-5	1H-1,2,4-Triazole, 1-[[(2S,4S)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-(9CI, ACI)	C15H17Cl2N3O2	342.22
2483		(2R,4S) Propiconazole	CCC[C@@H]1O[C@@](CN2N=CN=C2)(C3=CC=C(Cl)C=C3Cl)OC1	Impurity	DCTI-C-3036	(2R,4S)-1-(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl)-1H-1,2,4-triazole	116498-44-3	1H-1,2,4-Triazole, 1-[[(2R,4S)-2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-(9CI, ACI)	C15H17Cl2N3O2	342.22
2484	Propiomazine	S-Propiomazine Hydrochloride	CCC(C(C=C1N2C[C@@H](N(C)C)C)=CC=C1SC3=C2C=CC=C3)=O.[H]Cl	Impurity	DCTI-C-3598	(S)-1-(10-(2-(dimethylamino)propyl)-10H-phenothiazin-2-yl)propan-1-one hydrochloride	NA	NA	C20H24N2OS (Free base) C20H25ClN2OS (salt)	340.49 (Free base) 376.94 (salt)
2485		R-Propiomazine Hydrochloride	CCC(C(C=C1N2C[C@H](N(C)C)C)=CC=C1SC3=C2C=CC=C3)=O.[H]Cl	Impurity	DCTI-C-3599	(R)-1-(10-(2-(dimethylamino) propyl)-10H-phenothiazin-2-yl)propan-1-one hydrochloride	NA	NA	C20H24N2OS (Free base) C20H25ClN2OS (salt)	340.49 (Free base) 376.94 (salt)
2486		Propofol EP impurity-K	CC(C)C1=CC=CC=C1OC(C)C	Impurity	DCTI-C-842	1-isopropoxy-2-isopropylbenzene	14366-59-7	NA	C12H18O	178.28
2487		Propofol EP impurity-L	CC(C)C1=CC=CC2=C1OC(C)(C)O2	Impurity	DCTI-C-843	4-isopropyl-2,2-dimethylbenzo[d][1,3]dioxole	201166-22-5	NA	C12H16O2	192.26
2488		Propofol EP impurity-O	CC(C)C1=CC=CC(CCC)=C1O	Impurity	DCTI-C-844	2-isopropyl-6-propylphenol	74663-48-2	NA	C12H18O	178.28

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2489	Propofol	Oxydibenzene	C1(OC2=CC=CC=C2)=CC=CC=C1	Impurity	DCTI-C-3185	oxydibenzene	101-84-8	Phenoxybenzene; Diphenyl ether	C12H10O	170.21
2490		4-(1-METHYLETHYL)PHENOL	OC1=CC=C(C(C)C)C=C1	Impurity	DCTI-C-3190	4-isopropylphenol	99-89-8	4-(propan-2-yl)phenol	C9H12O	136.19
2491		2-(1-METHYLETHYL)PHENOL	CC(C)C1=C(O)C=CC=C1	Impurity	DCTI-C-3189	2-isopropylphenol	88-69-7	2-isopropylphenol	C9H12O	136.19
2492		4-Hydroxy-3,5-bis (1-methylethyl)benzoic acid	CC(C)C1=C(O)C(C(C)C)=CC(C(O)=O)=C1	Impurity	DCTI-C-3197	4-hydroxy-3,5-diisopropylbenzoic acid	13423-73-9	3,5-Diisopropyl-4-hydroxybenzoic acid	C13H18O3	222.28
2493		2,4-bis(1-methylethyl)phenol	CC(C)C1=CC(C(C)C)=CC=C1O	IMPURITY	DCTI-C-3224	2,4-diisopropylphenol	06-05-2934	Propofol EP Impurity A	C12H18O	178.28
2494		1-methylethyl 4-hydroxy-3,5-bis (1-methylethyl)benzoate	CC(C)C1=C(O)C(C(C)C)=CC(C(OC(C)C)=O)=C1	IMPURITY	DCTI-C-3235	isopropyl 4-hydroxy-3,5-diisopropylbenzoate	2095678-97-8	Propofol EP Impurity P	C16H24O3	264.37
2495		Prucalopride succinate Impurity-8	O=C(OC)C1=CC(Cl)=C(NC(C)=O)C(Br)=C1O	impurity	DCTI-C-2143	Methyl 4-acetamido-3-bromo-5-chloro-2-hydroxybenzoate	232941-14-9	Prucalopride Impurity 38	C10H9BrClNO4	322.54

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2496		Prucalopride succinate Impurity-7	O=C(OC)C1=CC(Cl)=C(N)C=C1OCCBr	impurity	DCTI-C-2144	Methyl 4-amino-2-(2-bromoethoxy)-5-chlorobenzoate	NA	Prucalopride Impurity 37	C10H11BrClNO3	308.56
2497		Prucalopride succinate impurity-5	O=C(OC)C1=CC(Cl)=C(N)C=C1O	impurity	DCTI-C-2145	methyl 4-amino-5-chloro-2-hydroxybenzoate	129511-06-4	Prucalopride Impurity 35.	C8H8ClNO3	201.61
2498		Prucalopride succinate impurity-6	O=C(OC)C1=CC(Cl)=C(NC(C)=O)C=C1O	impurity	DCTI-C-2146	Methyl 4-acetamido-5-chloro-2-hydroxybenzoate	24190-77-0	Prucalopride Impurity 36.	C10H10ClNO4	243.64
2499		Prucalopride succinate impurity-4	O=C(C1=CC(Cl)=C(N)C2=C1OCC2)NC3CC[N+](CCCOC)([O-])CC3	Metabolite	DCTI-C-2147	4-(4-amino-5-chloro-2,3-dihydrobenzofuran-7-carboxamido)-1-(3-methoxypropyl)piperidine 1-oxide	1900715-98-1	Prucalopride N-Oxide; N-Oxide Prucalopride	C18H26ClN3O4	383.87
2500		Prucalopride succinate impurity-2	NC1=C(Cl)C=C(C(O)=O)C2=C1CCO2	impurity	DCTI-C-2148	4-amino-5-chloro-2,3-dihydrobenzofuran-7-carboxylic acid	123654-26-2	NA	C9H8ClNO3	213.62

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2501	Prucalopride	Prucalopride Succinate Impurity 1	O=C(C1=CC(Cl)=C(N)C2=C1OCC2)NC3CCN(CCCO)CC3	Metabolite	DCTI-C-2149	4-amino-5-chloro-N-(1-(3-hydroxypropyl)piperidin-4-yl)-2,3-dihydrobenzofuran-7-carboxamide	1599434-55-5	Desmethyl Prucalopride	C17H24ClN3O3	353.85
2502		Prucalopride succinate impurity-3	O=C(C1=CC(Cl)=C(NC(C)=O)C2=C1OCC2)NC3CCN(CCCOC)CC3	impurity	DCTI-C-2150	4-acetamido-5-chloro-N-(1-(3-methoxypropyl)piperidin-4-yl)-2,3-dihydrobenzofuran-7-carboxamide	2181480-01-1	Prucalopride Impurity M.	C20H28ClN3O4	409.91
2503		Prucalopride succinate Impurity-9	O=C(OC)C1=CC(Cl)=C(NC(C)=O)C(Br)=C1OCCBr	impurity	DCTI-C-2151	Methyl 4-acetamido-3-bromo-2-(2-bromoethoxy)-5-chlorobenzoate	748788-39-8	Prucalopride Impurity-39	C12H12Br2ClNO4	429.88
2504		N-Desmethoxypropyl Prucalopride	NC1=C(Cl)C=C(C(NC2CCNCC2)=O)C3=C1CCO3.O=CC(F)(F)F	Metabolite	DCTI-C-2608	4-amino-5-chloro-N-(piperidin-4-yl)-2,3-dihydrobenzofuran-7-carboxamide compound with 2,2,2-trifluoroacetaldehyde (1:1)	NA	Prucalopride N-Desmethoxypropyl Impurity	C14H18ClN3O2 (Free base) C16H18ClF3N3O3 (TFA Salt)	295.77 (Free base) 392.78 (TFA Salt)

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2505		Nitroso Derivative of Prucalopride impurity -A	O=C(C1=C(OCC2)C2=C(N)C(Cl)=C1)NC3CCN(N=O)CC3	NDSRI	DCTI-C-2584	4-Amino-5-chloro-N-(1-nitrosopiperidin-4-yl)-2,3-dihydrobenzofuran-7-carboxamide	NA	NA	C14H17ClN4O3	324.77
2506		Prucalopride RC 4	O=C(C1=C(OC=C2)C2=C(N)C(Cl)=C1)NC3CCN(CCCOC)CC3	Impurity	DCTI-C-2579	4-amino-5-chloro-N-(1-(3-methoxypropyl)piperidin-4-yl)benzofuran-7-carboxamide	1900715-96-9	NA	C18H24ClN3O3	365.86
2507	**pseudoephedrine**	N-nitroso-pseudoephedrine impurity	O[C@H]([C@@H](N(C)N=O)C)C1=CC=CC=C1	NDSRI	DCTI-C-3914	N-((1S,2S)-1-hydroxy-1-phenylpropan-2-yl)-N-methylnitrous amide	1850-88-0	N-nitroso-pseudoephedrine impurity (Mixture of isomers)	C10H14N2O2	194.23
2508	**PTH-alanine**	Phenylthiodantoin Lysine	S=C1NC(CCCCN)C(N1C2=CC=CC=C2)=O	Impurity	DCTI-C-1552	5-(4-aminobutyl)-3-phenyl-2-thioxoimidazolidin-4-one	NA	PHENYLTHIOHYDANTOIN LYSINE; Lysine, 3-phenyl-2-thiohydantoin	C13H17N3OS	263.36
2509		PTH-alanine	S=C1NC(C)C(N1C2=CC=CC=C2)=O	Impurity	DCTI-C-1537	5-methyl-3-phenyl-2-thioxoimidazolidin-4-one	4333-19-1	PHENYLTHIOHYDANTOIN-DL-ALANINE	C10H10N2OS	206.26
2510		PTH-tyrosine	O=C1N(C=2C=CC=CC2)C(=S)NC1CC3=CC=C(O)C=C3	Impurity	DCTI-C-2945	5-(4-hydroxybenzyl)-3-phenyl-2-thioxoimidazolidin-4-one	4332-95-0	Phenylthiohydantoin tyrosine	C16H14N2O2S	298.36
2511		PTH-glutamic Acid	O=C(CCC1NC(N(C1=O)C2=CC=CC=C2)=S)O	Impurity	DCTI-C-2946	3-(5-oxo-1-phenyl-2-thioxoimidazolidin-4-yl)propanoic acid	5624-27-1	Phenylthiohydantoin glutamic Acid	C12H12N2O3S	264.3

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2512	**Pyridine boranes**	2-(Diethyl boranyl)Pyridine	CCB(CC)C1=NC=CC=C1	impurity	DCTI-C-1155	2-(diethylboraneyl)pyridine	385804-67-1	NA	C9H14BN	147.03
2513	**Pyridoxine**	Dimethanol Impurity for Pyridoxine	CC1=C(O)C(CO)=C(COC2=C(C)N=CC(CO)=C2CO)C=N1	impurity	DCTI-C-2219	(5-((5-hydroxy-4-(hydroxymethyl)-6-methylpyridin-3-yl)methoxy)-6-methylpyridine-3,4-diyl)dimethanol.	NA	NA	C16H20N2O5	320.35
2514	**PILOCARPINE**	ISOPILOCARPINE	CN1C(C[C@H]2COC([C@@H]2CC)=O)=CN=C1	impurity	DCTI-C-1905	(3R,4R)-3-ethyl-4-((1-methyl-1H-imidazol-5-yl)methyl)dihydrofuran-2(3H)-one	NA	Beta-Pilocarpine; Pilocarpine EP imp-A	C11H16N2O2	208.26
2515		ISOPILOCARPIC ACID	CN1C(C[C@H]([C@@H](CC)C(O[Na])=O)CO)=CN=C1	impurity	DCTI-C-2108	sodium (2R,3R)-2-ethyl-4-hydroxy-3-((1-methyl-1H-imidazol-5-yl)methyl) butanoate	34350-99-7 (salt free)	NA	C11H18N2O3 (Free Acid) C11H17N2NaO3 (Sodium Salt)	226.13 (Free Acid) 248.26 (Sodium Salt)
2516		PILOCARPIC ACID	O=C(O)[C@@H](CC)[C@@H](CC1N(C)C[N]C1)CO.CCNCC	impurity	DCTI-C-2109	Diethylamine (2S,3R)-2-ethyl-4-hydroxy-3-((1-methyl-1H-imidazol-5-yl) methyl)butanoate	28406-15-7 (base free)	Pilocarpine EP Impurity B	C11H18N2O3 (Free acid) C15H29N3O3 (Diethyl amine salt)	226.28 (Free acid) 299.42 (Diethyl amine salt)
2517	**Proparacaine**	Proparacaine Impurity at RRT 1.04	O=C(OCC(O)CO)C1=CC=C(OCCC)C(N)=C1	Impurity	DCTI-C-2376	2,3-dihydroxypropyl 3-amino-4-propoxybenzoate	2102411-30-1	NA	C13H19NO5	269.3

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2518	Promethazine	Promethazine sulfoxide impurity	CN(C)C(C)CN(C1=C2C=CC=C1)C3=CC=CC=C3S2=O	impurity	DCTI-C-1866	10-(1-(dimethylamino)propan-2-yl)-10H-phenothiazine 5-oxide	NA	Promethazine sulfoxide	C17H20N2OS	300.42
2519		Promethazine EP Impurity A	C12=CC=CC=C1NC3=C(C=CC=C3)S2	impurity	DCTI-C-1915	10H-phenothiazine	NA	Promethazine impurity A; Phenothiazine impurity A	C12H9NS	199.27
2520		N-nitroso-desmethyl Promethazine	CC(N(C)N=O)CN1C2=C(C=CC=C2)SC3=CC=CC=C13	NDSRI	DCTI-C-3799	N-(1-(10H-phenothiazin-10-yl)propan-2-yl)-N-methylnitrous amide	94511-44-1	N-Desmethyl-N-nitroso-promethazine (Mixture of isomers)	C16H17N3OS	299.39
2521	Propranolol	Iso Propranolol	CC(C)NC(CO)COC1=CC=CC2=CC=CC=C21	impurity	DCTI-C-1233	2-(isopropylamino)-3-(naphthalen-1-yloxy)propan-1-ol	27827-19-6	NA	C16H21NO2	259.35
2522		N-Nitrosopropranolol	OC(COC1=C2C=CC=CC2=CC=C1)CN(N=O)C(C)C	NDSRI	DCTI-C-3727	N-(2-hydroxy-3-(naphthalen-1-yloxy)propyl)-N-isopropylnitrous amide	84418-35-9	N-Nitrosopropranolol (Mixture of Isomers)	C16H20N2O3	288.35
2523		R-Propranolol	O[C@@H](COC1=C2C=CC=CC2=CC=C1)CNC(C)C	Impurity	DCTI-A-139	(R)-1-(isopropylamino)-3-(naphthalen-1-yloxy)propan-2-ol	5051-22-9	AY 20694; ICI 47319	$C_{16}H_{21}NO_2$	259.35
2524		S-Propranolol	[H][C@@](CNC(C)C)(O)COC1=CC=CC2=CC=CC=C21	Impurity	DCTI-A-140	(S)-1-(isopropylamino)-3-(naphthalen-1-yloxy)propan-2-ol	4199-10-4(HClsalt)	NA	$C_{16}H_{21}NO_2$	259.35
2525	Pyridostigmine	1-Methyl-6-oxo-1,6-dihydropyridin-3-yl dimethyl carbamate	CN(C=C(OC(N(C)C)=O)C=C1)C1=O	Impurity	DCTI-C-1499	1-Methyl-6-oxo-1,6-dihydropyridin-3-yl dimethyl carbamate	NA	Pyridostigmine impurity	C9H12N2O3	196.21

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2526		Pyridostigmine EP Impurity B	C[N+]1=CC=CC(O)=C1.[Br-]	Impurity	DCTI-C-1365	3-hydroxy-1-methylpyridin-1-ium bromide	NA	NA	$C_6H_8NO^+$ (Free Pyridinium) C_6H_8BrNO (Bromide Salt)	110.14 (Free Pyridinium) 190.04 (Bromide Salt)
2527	**Pyronaridine**	Pyronaridine Impurity 7	COC1=NC2=C(NC3=CC=C(O)C=C3)C4=CC=C(Cl)C=C4N=C2C=C1	Impurity	DCTI-C-3548	4-((7-chloro-2-methoxybenzo[b][1,5]naphthyridin-10-yl)amino)phenol	81935-60-6	NA	$C_{19}H_{14}ClN_3O_2$	351.79
2528	**Quetiapine**	Quetiapine Imp-O	N1(CCOCCOC(C2=CC=CC=C2)(C3=CC=CC=C3)C4=CC=CC=C4)CCN(C5=NC6=CC=CC=C6SC7=CC=CC=C57)CC1	Impurity	DCTI-C-1506	11-(4-(2-(2-(trityloxy)ethoxy)ethyl)piperazin-1-yl)dibenzo[b,f][1,4]thiazepine	844639-06-1	NA	$C_{40}H_{39}N_3O_2S$	625.83
2529		Nitroso aryl piperazine	O=NN(CC1)CCN1C2=NC(C=CC=C3)=C3SC4=C2C=CC=C4	Metabolite	DCTI-C-2237	11-(4-nitrosopiperazin-1-yl)dibenzo[b,f][1,4]thiazepine	NA	Nitroso aryl piperazine quetiapine; Quetiapine nitroso intermediate.	$C_{17}H_{16}N_4OS$	324.4
2530		11-(piperazin-1-yl)dibenzo[b,f][1,4]thiazepine	N1(C2=NC3=CC=CC=C3SC4=CC=CC=C24)CCNCC1	impurity	DCTI-C-1686	11-(piperazin-1-yl)dibenzo[b,f][1,4]thiazepine	5747-48-8	N-Desalkylquetiapine Norquetiapine	$C_{17}H_{17}N_3S$	295.40
2531		Quetiapine Tetra Ethylene Glycol Fumarate Salt	OCCOCCOCCOCCN1CCN(C2=NC3=CC=CC=C3SC4=CC=CC=C24)CC1.O=C(O)/C=C/C(O)=O	impurity	DCTI-C-1295	2-(2-(2-(2-(4-(dibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl)ethoxy)ethoxy)ethoxy)ethan-1-ol fumarate	2470243-24-2	Quetiapine EP Impurity J	$C_{29}H_{37}N_3O_8S$ (Fumarate Salt) $C_{25}H_{33}N_3O_4S$ (Free base)	587.69 (Fumarate Salt) 471.62 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2532		Quetiapine Imp-A	CC(OCCOCCN1CCN(C2=NC3=CC=CC=C3SC4=CC=CC=C24)CC1)=O	impurity	DCTI-C-1205	2-(2-(4-(dibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl)ethoxy)ethyl acetate	844639-07-2	NA	C23H27N3O3S	425.55
2533		Quetiapine impurity Q	OCCOCC[N+]1(CCN(CC1)C2=NC3=CC=CC=C3SC4=CC=CC=C24)CCOCCO.[Cl-]	Impurity	DCTI-C-2966	4-(dibenzo[b,f][1,4]thiazepin-11-yl)-1,1-bis(2-(2-hydroxyethoxy)ethyl)piperazin-1-ium chloride	NA	NA	C25H34ClN3O4S	508.07
2534	**Quinapril**	N-Nitroso-Quinapril	O=C(O)[C@@H]1CC2=CC=CC=C2CN1C([C@H](C)N(N=O)[C@@H](CCC3=CC=CC=C3)C(OCC)=O)=O	NDSRI	DCTI-C-3771	(S)-2-(N-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-N-nitroso-L-alanyl)-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid	NA	N-Nitroso Quinapril (Mixture of Isomers)	C25H29N3O6	467.52
2535	**Quinazoline Carbaldehyde**	6-chloro-4-(2-chlorophenyl)quinazoline-2-carbaldehyde(Quinazoline Carbaldehyde Impurities)	ClC1=CC=C2N=C(C=O)N=C(C3=CC=CC=C3Cl)C2=C1	Impurity	DCTI-C-3087	6-chloro-4-(2-chlorophenyl)quinazoline-2-carbaldehyde	93955-15-8	NA	C15H8Cl2N2O	303.14
2536		Rabeprazole Impurity-5	[O-]C(C1=C(C)C(OCCCOC)=CC=[N+]1C2=NC(C=CC=C3)=C3N2)=O	Impurity	DCTI-C-247	1-(1H-benzo[d]imidazol-2-yl)-2-carboxy-4-(3-methoxypropoxy)-3-methylpyridin-1-ium	1807988-36-8	NA	C18H19N3O4	341.37
2537		4-(1H-Benzimidazol-2-yloxy)-3-methylpicolinic acid	CC(C(C(O)=O)=NC=C1)=C1OC2=NC3=CC=CC=C3N2	impurity	DCTI-C-1872	4-((1H-benzo[d]imidazol-2-yl)oxy)-3-methylpicolinic acid	NA	2-Pyridinecarboxylic acid, 4-(1H-benzimidazol-2-yloxy)-3-methyl-; Rabeprazole Impurity 1	C14H11N3O3	269.26

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2538	Rabeprazole	Rabeprazole Impurity-2	O=C(O)C1=NC=CC(OCCCOC)=C1C.Cl	impurity	DCTI-C-1867	4-(3-methoxypropoxy)-3-methylpicolinic acid.Hydrochloride	NA	Rabeprazole Impurity-III; Rabeprazole sodium Impurity U; Rabeprazole Carboxylic Acid Impurity; 2-Pyridinecarboxylic acid; Des Benzimidazolosulfoxy Rabeprazole Acid	C11H15NO4 (Free base) C11H16ClNO4 (HCl Salt)	225.24 (Free base) 261.70 (HCl Salt)
2539		Rabeprazole Related Compound A	O=C1C=CN(C2=NC3=CC=CC=C3N2)C(C(O)=O)=C1C	impurity	DCTI-C-1626	1-(1H-benzo[d]imidazol-2-yl)-3-methyl-4-oxo-1,4-dihydropyridine-2-carboxylic acid	NA	Rebeprazole Impurity C	C14H11N3O3	269.26
2540		1H-benzo[d]imidazole-2-thiol.	SC(N1)=NC2=C1C=CC=C2	impurity	DCTI-C-1805	1H-benzo[d]imidazole-2-thiol	NA	1,3-Dihydro-2H-benzimidazole-2-thione (ACI);1,3-Dihydro-2H-benzoimidazole-2-thione;2-Mercapto-1H-benzimidazole;1H-Benzo[d]imidazole-2(3H)-thione;2-Mercaptobenzimidazole	C7H6N2S	150.2
2541		Rabeprazole N-Oxide (Rabeprazole Related Compound B)	CC1=C(CS(C2=NC3=CC=CC=C3N2)=O)[N+]([O-])=CC=C1OCCCOC	impurity	DCTI-C-1249	2-(((1H-benzo[d]imidazol-2-yl)sulfinyl)methyl)-4-(3-methoxypropoxy)-3-methylpyridine 1-oxide	NA	NA	C18H21N3O4S	375.44
2542		Rabeprazole Sulfone	CC1=C(CS(C2=NC3=CC=CC=C3N2)(=O)=O)N=CC=C1OCCCOC	impurity	DCTI-C-1250	2-(((4-(3-methoxypropoxy)-3-methylpyridin-2-yl)methyl)sulfonyl)-1H-benzo[d]imidazole	117976-47-3	NA	C18H21N3O4S	375.44
2543		Rabeprazole Sulfone N-Oxide	CC1=C(CS(C2=NC3=CC=CC=C3N2)(=O)=O)[N+]([O-])=CC=C1OCCCOC	impurity	DCTI-C-1251	2-(((1H-benzo[d]imidazol-2-yl)sulfonyl)methyl)-4-(3-methoxypropoxy)-3-methylpyridine 1-oxide	NA	NA	C18H21N3O5S	391.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2544		Rabeprazole sulfide (Rabeprazole Related Compound E)	CC1=C(CSC2=NC3=CC=CC=C3N2)N=CC=C1OCCCOC	impurity	DCTI-C-1419	2-(((4-(3-methoxypropoxy)-3-methylpyridin-2-yl)methyl)thio)-1H-benzo[d]imidazole	117977-21-6	H 295/43; Rabeprazole-thioether	C18H21N3O2S	343.45
2545		2-Hydroxybenzimidazole	OC1=NC2=CC=CC=C2N1	impurity	DCTI-C-1420	1H-benzo[d]imidazol-2-ol	615-16-7	Lansoprazole EP Impurity D; Rabeprazole EP Impurity K; 2-Benzimidazolone; NSC 10383; NSC 178108; o-Phenyleneurea	C7H6N2O	134.14
2546		Rabeprazole methoxy sulfide analog Impurity	CC1=C(CSC2=NC3=CC=CC=C3N2)N=CC=C1OC	impurity	DCTI-C-1185	2-(((4-methoxy-3-methylpyridin-2-yl)methyl)thio)-1H-benzo[d]imidazole	102804-82-0	NA	C15H15N3OS	285.37
2547		Rabeprazole Related compound-F	CC1=C(CS(C2=NC3=CC=CC=C3N2)=O)N=CC=C1Cl	impurity	DCTI-C-1186	2-(((4-chloro-3-methylpyridin-2-yl)methyl)sulfinyl)-1H-benzo[d]imidazole	168167-42-8	NA	C14H12ClN3OS	305.78
2548		Rabeprazole Methoxy Analog	O=S(C1=NC2=CC=CC=C2N1)CC3=C(C)C(OC)=CC=N3	Impurity	DCTI-C-3558	2-(((4-methoxy-3-methylpyridin-2-yl)methyl)sulfinyl)-1H-benzo[d]imidazole	102804-77-3	NA	C15H15N3O2S	301.36
2549		2-(2-(piperidin-1-yl)ethoxy)benzoic acid (Isomer of PA Compound)	OC(C1=C(OCCN2CCCCC2)C=CC=C1)=O	Impurity	DCTI-C-264	2-(2-(piperidin-1-yl)ethoxy)benzoic acid	937666-17-6	Raloxifene Impurity – 19	C14H19NO3	249.31
2550		4-(3-(piperidin-1-yl) propoxy) benzoic acid hydrochloride (Propyl analogue of PA compound)	OC(C1=CC=C(OCCCN2CCCCC2)C=C1)=O.Cl	Impurity	DCTI-C-265	4-(3-(piperidin-1-yl)propoxy)benzoic acid hydrochloride	767286-87-3(free amine)	Raloxifene Impurity - 20	C15H22ClNO3 (HCl Salt) C15H21NO3 (Free base)	299.8 (HCl Salt) 263.34 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2551	Raloxifene	2-(4-hydroxyphenyl)benzo[b]thiophen-5-ol	OC1=CC=C2C(C=C(C3=CC=C(O)C=C3)S2)=C1	Impurity	DCTI-C-266	2-(4-hydroxyphenyl)benzo[b]thiophen-5-ol	1190867-20-9	Raloxifene Impurity 14	C14H10O2S	242.29
2552		2-(4-hydroxyphenyl)benzo[b]thiophen-4-ol	OC1=C(C=C(C2=CC=C(O)C=C2)S3)C3=CC=C1	Impurity	DCTI-C-267	2-(4-hydroxyphenyl)benzo[b]thiophen-4-ol	NA	Raloxifene Impurity-16	C14H10O2S	242.29
2553		2-(4-hydroxyphenyl)benzo[b]thiophen-7-ol	OC1=C2C(C=C(C3=CC=C(O)C=C3)S2)=CC=C1	Impurity	DCTI-C-268	2-(4-hydroxyphenyl)benzo[b]thiophen-7-ol	NA	Raloxifene Impurity-15	C14H10O2S	242.29
2554		4-(6-hydroxybenzo[b]thiophen-2-yl)benzene-1,2-diol	OC1=CC=C(C=C(C2=CC=C(O)C(O)=C2)S3)C3=C1	Impurity	DCTI-C-229	4-(6-hydroxybenzo[b]thiophen-2-yl)benzene-1,2-diol	414861-41-9	Raloxifene Impurity-18	C14H10O3S	258.29
2555		4-(6-hydroxybenzo[b]thiophen-2-yl)benzene-1,3-diol	OC1=CC=C(C=C(C2=CC=C(O)C=C2O)S3)C3=C1	Impurity	DCTI-C-270	4-(6-hydroxybenzo[b]thiophen-2-yl)benzene-1,3-diol	NA	Raloxifene Impurity - 17	C14H10O3S	258.29
2556		Raloxifene Dimer	OC1=CC=C(C(C(C2=CC=C(OCCN3CCCCC3)C=C2)=O)=C(C4=CC=C(O)C=C4)S5)C5=C1C6=C7SC(C(C=C8)=CC=C8O)=C(C(C9=CC=C(OCCN%10CCCCC%10)C=C9)=O)C7=CC=C6O	Impurity	DCTI-C-632	(6,6'-dihydroxy-2,2'-bis(4-hydroxyphenyl)-[7,7'-bibenzo[b]thiophene]-3,3'-diyl)bis((4-(2-(piperidin-1-yl)ethoxy)phenyl)methanone)	618902-12-8	NA	C56H52N2O8S2	945.16

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2557		Raloxifene N-Oxide	OC1=CC=C(C(C(C2=CC=C(OCCN3(CCCCC3)=O)C=C2)=O)=C(C4=CC=C(O)C=C4)S5)C5=C1	Metabolite	DCTI-C-633	1-(2-(4-(6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thiophene-3-carbonyl)phenoxy)ethyl)piperidine 1-oxide	195454-31-0	Raloxifene EP Impurity C	C28H27NO5S	489.59
2558	Raltegravir	Raltegravir Impurity-A	CC1[N][N]C(C(O[K])=O)O1	impurity	DCTI-C-1837	Potassium 5-methyl-1,3,4-oxadiazole-2-carboxylate	NA	NA	(Potassium salt): C4H3KN2O3 (Free base): C4H4N2O3	(Potassium salt): 166.17 (Free base): 128.09
2559		Raltegravir Impurity-B	O=C(C(N=C(C(C)(N)C)N1C)=C(O)C1=O)NCC2=CC=C(F)C=C2	impurity	DCTI-C-1838	2-(2-aminopropan-2-yl)-N-(4-fluorobenzyl)-5-hydroxy-1-methyl-6-oxo-1,6-dihydropyrimidine-4-carboxamide	NA	Raltegravir EP Impurity A	C16H19FN4O3	334.35
2560		Raltegravir Impurity-G	O=C(C(N=C(C(NC(C(OCC)=O)=O)(C)C)N1C)=C(O)C1=O)NCC2=CC=C(F)C=C2	impurity	DCTI-C-1839	ethyl 2-((2-(4-((4-fluorobenzyl) carbamoyl)-5-hydroxy-1-methyl-6-oxo-1,6-dihydropyrimidin-2-yl) propan-2-yl) amino)-2-oxoacetate	NA	Raltegravir Diketo Ethoxy Impurity	C20H23FN4O6	434.42
2561		Raltegravir Oxo Acetic Acid	O=C(C(N=C(C(NC(C(O)=O)=O)(C)C)N1C)=C(O)C1=O)NCC2=CC=C(F)C=C2	impurity	DCTI-C-1840	2-((2-(4-((4-fluorobenzyl) carbamoyl)-5-hydroxy-1-methyl-6-oxo-1,6-dihydropyrimidin-2-yl) propan-2-yl) amino)-2-oxoacetic acid	NA	Raltegravir EP Impurity-D, 2-Des(5-methyl-1,3,4-oxadiazole-2-carboxamide) 2-(2-Amino-2-oxoacetic Acid) Raltegravir, Raltegravir Oxalyl Analog Impurity	C18H19FN4O6	406.37

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2562		Raltegravir Diketo Amine Impurity	O=C(C(N=C(C(NC(C(N)=O)=O)(C)C)N1C)=C(O)C1=O)NCC2=CC=C(F)C=C2	impurity	DCTI-C-1841	N1-(2-(4-((4-fluorobenzyl) carbamoyl)-5-hydroxy-1-methyl-6-oxo-1,6-dihydropyrimidin-2-yl) propan-2-yl)oxalamide	NA	Deoxadiazole oxalamide Raltegravir Impurity, Raltegravir Impurity-D	C18H20FN5O5	405.39
2563		Raltegravir Impurity-A	CC1[N][N]C(C(O[K])=O)O1	impurity	DCTI-C-1837	Potassium 5-methyl-1,3,4-oxadiazole-2-carboxylate	888504-28-7	NA	(Potassium salt): C4H3KN2O3 (Free base): C4H4N2O3	(Potassium salt): 166.17 (Free base): 128.09
2564	**Ramelteon**	Chiral Amide Impurity	O=C1OC[C@H](C2=CC=CC=C2)N1C(C[C@@H]3CCC4=CC=C5OCCC5=C34)=O	Impurity	DCTI-C-2575	(S)-4-phenyl-3-(2-((S)-1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)acetyl)oxazolidin-2-one	1149757-30-1	Ramelteon Impurity 10	C22H21NO4	363.41
2565		Double bond amide impurity	O=C1OC[C@H](C2=CC=CC=C2)N1C(/C=C3CCC4=CC=C5OCCC5=C\34)=O	Impurity	DCTI-C-2576	(S,E)-4-phenyl-3-(2-(1,2,6,7-tetrahydro-8H-indeno[5,4-b]furan-8-ylidene)acetyl)oxazolidin-2-one	1149757-29-8	Ramelteon Impurity 19: (S)-3-(2-(6,7-dihydro-1-H-indeno[5,4-b]furan-8-(2H)ylidene)acetyl)-4-phenyloxazolidin-2-one	C22H19NO4	361.4
2566		Ramipril RR-isomer of ECPP Alanine	OC([C@@H](C)N[C@@H](C(OCC)=O)CCC1=CC=CC=C1)=O	impurity	DCTI-C-1038	((R)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-D-alanine	122076-80-6	Ramipril RR-isomer of ECPP Alanine	C15H21NO4	279.34
2567		Benzyl (2S,3aS,6aS)-octahydrocyclopenta[b]pyrrole-2-carboxylate hydrochloride	O=C([C@H]1N[C@@]2([H])CCC[C@@]2([H])C1)OCC3=CC=CC=C3.Cl	impurity	DCTI-C-2152	Benzyl (2S,3aS,6aS)-octahydrocyclopenta[b]pyrrole-2-carboxylate hydrochloride	87269-87-2	(S,S,S)-2-Azabicyclo[3.3.0]octane-3-carboxylic Acid, Benzyl Ester, Hydrochloride	C15H19NO2 (free base) $C_{15}H20ClNO2$ (HCl salt)	245.32 (free base) 281.78 (HCl salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2568	Ramipril	Ramipril EP Impurity D	O=C([C@H](CCc1ccccc1)N2C([C@@]3([H])C[C@@]4([H])[C@@](CCC4)([H])N3C([C@@H]2C)=O)=O)OCC	Impurity	DCTI-C-1709	ethyl (S)-2-((3S,5aS,8aS,9aR)-3-methyl-1,4-dioxodecahydro-2H-cyclopenta[4,5]pyrrolo[1,2-a]pyrazin-2-yl)-4-phenylbutanoate	NA	Ramipril Diketopiperazine	C23H30N2O4	398.5
2569		Ramipril RS-isomer of ECPP Alanine	OC([C@H](C)N[C@@H](C(OCC)=O)CCC1=CC=CC=C1)=O	impurity	DCTI-C-1039	((R)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-L-alanine	84324-12-9	Ramipril RS-isomer of ECPP Alanine	C15H21NO4	279.34
2570		Ramipril SR-isomer of ECPP Alanine	OC([C@@H](C)N[C@H](C(OCC)=O)CCC1=CC=CC=C1)=O	impurity	DCTI-C-1040	((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-D-alanine	85196-26-5	Ramipril SR-isomer of ECPP Alanine	C15H21NO4	279.34
2571		Ramipril SS-isomer of ECPP Alanine	OC([C@H](C)N[C@H](C(OCC)=O)CCC1=CC=CC=C1)=O	impurity	DCTI-C-1041	((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-L-alanine	82717-96-2	Ramipril RS-isomer of ECPP Alanine	C15H21NO4	279.34
2572		N-Nitroso Ramipril	CCOC([C@H](CCC1=CC=CC=C1)N([C@H](C(N2[C@@]3([H])CCC[C@]3(C[C@H]2C(O)=O)[H])=O)C)N=O)=O	NDSRI	DCTI-C-2378	(2S,3aS,6aS)-1-(N-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-N-nitroso-L-alanyl)octahydrocyclopenta[b]pyrrole-2-carboxylic acid	NA	N-Nitroso Ramipril (Mixture of Isomers)	C23H31N3O6	445.52

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2573		Ramipril EP Impurity E	O=C([C@H](CCC1=CC=CC=C1)N[C@@H](C)C(N2[C@@H](C[C@@H]3CCC[C@H]23)C(O)=O)=O)O	Impurity	DCTI-C-2377	(2S,3aS,6aS)-1-(((S)-1-carboxy-3-phenylpropyl)-L-alanyl)octahydrocyclopenta[b]pyrrole-2-carboxylic acid	87269-97-4	Ramiprilat; Ramipril diacid	C21H28N2O5	388.46
2574		Ramipril Megluamine Amide impurity	O=C(N(C)C[C@H](O)[C@H]([C@@H]([C@@H](CO)O)O)O)[C@H](CCC1=CC=CC=C1)N[C@@H](C)C(N2[C@@H](C[C@@H]3CCC[C@H]23)C(O)=O)=O.FC(F)(C(O)=O)F	Impurity	DCTI-C-2379	(S)-N-((S)-1-((2S,3aS,6aS)-2-carboxyhexahydrocyclopenta[b]pyrrol-1(2H)-yl)-1-oxopropan-2-yl)-1-(methyl((2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl)amino)-1-oxo-4-phenylbutan-2-aminium 2,2,2-trifluoroacetate	NA	NA	C28H43N3O9 (free base) C30H44F3N3O11 (CF3COOH salt)	565.66 (free base) 679.69 (CF3COOH salt)
2575	**Rasagiline**	N-Nitroso Rasagiline	C#CCN(N=O)C1C2=C(CC1)C=CC=C2	NDSRI	DCTI-B-130	N-(2,3-dihydro-1H-inden-1-yl)-N-(prop-2-yn-1-yl)nitrous amide	NA	NA	C12H12N2O	200.24
2576		Ranolazine Related Compound C	O=C(CN1CCNCC1)NC2=C(C)C=CC=C2C	Impurity	DCTI-C-064	N-(2,6-dimethylphenyl)-2-(piperazin-1-yl)acetamide	5294-61-1	RS 94287	C14H21N3O	247.34
2577		4-Methyl Ranolazine Impurity	O=C(CN1CCN(CC(O)COC2=C(OC)C=CC=C2)CC1)NC3=CC=C(C)C=C3	Impurity	DCTI-C-1785	2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)-N-(p-tolyl)acetamide	NA	NA	C23H31N3O4	413.52
2578		2-Chloro-6-Methyl Ranolazine Hydrochloride Impurity	ClC1=CC=CC(C)=C1NC(CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2)=O.Cl	impurity	DCTI-C-2207	N-(2-chloro-6-methylphenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide hydrochloride.	NA	NA	C23H30ClN3O4 (Free base) C23H31Cl2N3O4 (Salt)	447.96 (Free base) 484.42 (Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2579		4-Chloro Ranolazine Impurity	O=C(CN1CCN(CC(O)COC2=CC=CC=C2OC)CC1)NC3=CC=C(Cl)C=C3	impurity	DCTI-C-2208	N-(4-chlorophenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide.	NA	NA	C22H28ClN3O4	433.93
2580		Ranolazine Metabolite CVT-2512	CC1=C(NC(CN2CCN(CC(O)CO)CC2)=O)C(C)=CC=C1	Metabolite	DCTI-C-2153	2-(4-(2,3-dihydroxypropyl)piperazin-1-yl)-N-(2,6-dimethylphenyl)acetamide	172430-46-5	O-Desaryl Ranolazine.	C17H27N3O3	321.42
2581		Ranolazine Metabolite CVT-2514	O=C(NC1=C(C)C=CC=C1C)CN2CCN(CC(O)COC3=CC=CC=C3O)CC2	Metabolite	DCTI-C-2154	N-(2,6-dimethylphenyl)-2-(4-(2-hydroxy-3-(2-hydroxyphenoxy)propyl)piperazin-1-yl)acetamide	172430-45-4	Desmethyl Ranolazine.	C23H31N3O4	413.52
2582		Ranolazine Metabolite CVT-4786	COC1=C(OCC(O)C(O)=O)C=CC=C1	Metabolite	DCTI-C-2155	2-hydroxy-3-(2-methoxyphenoxy) propanoic acid	13057-65-3	3-(2-Methoxyphenoxy) Lactic Acid	C10H12O5	212.2
2583		RNB (DCA)-3 impurity	O=C(NC1=C(C)C=CC=C1C)C(Cl)Cl	impurity	DCTI-C-2156	2,2-dichloro-N-(2,6-dimethylphenyl)acetamide	39084-88-3	N-(2,6-Dimethylphenyl)-2,2-dichloroacetamide; NSC 37288; Acetamide, 2,2-dichloro-N-(2,6-dimethylphenyl)- (9CI, ACI); Ranolazine Impurity.	C10H11Cl2NO	232.1
2584		3,4-Dimethyl Ranolazine Impurity	O=C(NC1=CC=C(C)C(C)=C1)CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2	Impurity	DCTI-C-1786	N-(3,4-dimethylphenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide	NA	NA	C24H33N3O4	427.55

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2585	Ranolazine	3,5-dimethyl ranolazine impurity .hydrochloride	O=C(NC1=CC(C)=CC(C)=C1)CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2.Cl	Impurity	DCTI-C-1787	N-(3,5-dimethylphenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide hydrochloride`	NA	NA	C24H33N3O4 (Free Base) C24H34ClN3O4 (Salt)	427.55 (Free Base) 464.00 (Salt)
2586		Ranolazine related compound A	COC1=CC=CC=C1OCC2OC2	Impurity	DCTI-C-218	2-((2-methoxyphenoxy)methyl)oxirane	2210-74-4	NSC 112256; NSC 133442	C10H12O3	180.2
2587		Ranolazine impurity ZEN-II	CC1=C(NC(CCl)=O)C(C)=CC=C1	Impurity	DCTI-C-219	2-chloro-N-(2,6-dimethylphenyl)acetamide	1131-01-7	NSC 37260; Lidocaine EP Impurity H	C10H12ClNO	197.66
2588		Ranolazine related compound D (ZEN-IV)	CC1=C(NC(CN2CCN(CC(NC3=C(C)C=CC=C3C)=O)CC2)=O)C(C)=CC=C1	Impurity	DCTI-C-220	2,2'-(piperazine-1,4-diyl)bis(N-(2,6-dimethylphenyl)acetamide)	380204-72-8	NA	C24H32N4O2	408.55
2589		Ranolazine Related compound-B	O=C(NC1=C(C)C=CC=C1C)CN(CC2)CCN2CC(O)COC3=CC=CC=C3	Impurity	DCTI-C-234	N-(2,6-dimethylphenyl)-2-(4-(2-hydroxy-3-phenoxypropyl)piperazin-1-yl)acetamide	755711-09-2	NA	C23H31N3O3	397.52
2590		Ranolazine ether dimer	OC(COCC(O)CN1CCN(CC(NC2=C(C)C=CC=C2C)=O)CC1)CN3CCN(CC(NC4=C(C)C=CC=C4C)=O)CC3	IMPURITY	DCTI-C-2718	2,2'-((oxybis(2-hydroxypropane-3,1-diyl))bis(piperazine-4,1-diyl))bis(N-(2,6-dimethylphenyl)acetamide)	NA	NA	C34H52N6O5	624.83
2591		N-Nitroso Ranolazine Impurity B	CC1=CC=CC(C)=C1NC(CN2CCN(N=O)CC2)=O	NDSRI	DCTI-C-3713	N-(2,6-dimethylphenyl)-2-(4-nitrosopiperazin-1-yl)acetamide	NA	N-Nitroso Ranolazine USP releated compound c	C14H20N4O2	276.34

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2592		N-Nitroso Ranolazine Impurity A	O=NN1CCN(CC(COC2=CC=CC=C2OC)O)CC1	NDSRI	DCTI-C-3712	1-(2-methoxyphenoxy)-3-(4-nitrosopiperazin-1-yl)propan-2-ol	NA	N-Nitroso Ranolazine Impurity 20	C14H21N3O4	295.34
2593		3-Chloro-2,6-Dimethyl Ranolazine Impurity	CC1=C(NC(CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2)=O)C(C)=CC=C1Cl	Impurity	DCTI-C-2429	N-(3-chloro-2,6-dimethylphenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide	NA	NA	C24H32ClN3O4	461.99
2594		1-(2-Methoxyphenoxy)-3-(oxiran-2-ylmethoxy)propan-2-ol	OC(COCC1OC1)COC2=CC=CC=C2OC	impurity	DCTI-C-3418	1-(2-methoxyphenoxy)-3-(oxiran-2-ylmethoxy)propan-2-ol	2412683-57-7	Ranolazine epoxy propanal impurity	C13H18O5	254.28
2595		2-Methyl Ranolazine Impurity HCl	O=C(CN1CCN(CC1)CC(COC2=CC=CC=C2OC)O)NC3=CC=CC=C3C.[H]Cl	impurity	DCTI-C-3390	2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)-N-(o-tolyl)acetamide hydrochloride	NA	NA	C23H32ClN3O4(HCl salt); C23H31N3O4(free base)	449.98(HCl salt);413.52(free base)
2596		3-Methyl Ranolazine Impurity	O=C(NC1=CC=CC(C)=C1)CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2.[H]Cl	impurity	DCTI-C-3391	2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)-N-(m-tolyl)acetamide hydrochlorid	NA	NA	C23H32ClN3O4(HCl salt); C23H31N3O4(free base)	449.98(HCl salt);413.52(free base)
2597		2,5-Dimethyl Ranolazine Impurity Hydrochloride	O=C(NC1=CC(C)=CC=C1C)CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2.[H]Cl	impurity	DCTI-C-3392	N-(2,5-dimethylphenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide hydrochloride	NA	NA	C24H34ClN3O4(HCL SALT); C24H33N3O4(free base)	464(HCL SALT);427.55(free base4)
2598		2,3-Dimethyl Ranolazine Impurity Hydrochloride	O=C(NC1=CC=CC(C)=C1C)CN2CCN(CC(O)COC3=CC=CC=C3OC)CC2.[H]Cl	impurity	DCTI-C-3393	N-(2,3-dimethylphenyl)-2-(4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide hydrochloride	NA	NA	C24H34ClN3O4(HCL SALT); C24H33N3O4(free base)	464(HCL SALT);427.55(free base4)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2599		Ranolazine Impurity 13	O=C(CN1CCN(CC(COC2=C(OC)C=CC=C2)OCC(COC3=C(OC)C=CC=C3)O)CC1)NC4=C(C)C=CC=C4C	impurity	DCTI-C-3398	N-(2,6-dimethylphenyl)-2-(4-(2-(2-hydroxy-3-(2-methoxyphenoxy)propoxy)-3-(2-methoxyphenoxy)propyl)piperazin-1-yl)acetamide	NA	NA	C34H45N3O7	607.75
2600	Regadenoson	Regadenoson impurity C	NC1=C2N=CN(C2=NC(N3N=CC(C(NC)=O)=C3)=N1)[C@H]4O[C@@H]([C@H]([C@H]4O)O)CO	impurity	DCTI-C-1421	1-(6-amino-9-((2S,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-9H-purin-2-yl)-N-methyl-1H-pyrazole-4-carboxamide	NA	NA	C15H18N8O5	390.36
2601		Regadenoson Impurity-7	O=C(C1=CNN=C1)OCC	Impurity	DCTI-C-828	ethyl 1H-pyrazole-4-carboxylate	37622-90-5	NA	C6H8N2O2	140.14
2602		Regadenoson Carboxylic Acid impurity	OC[C@@H](O1)[C@@H](O)[C@@H](O)[C@@H]1N2C3=NC(N4C=C(C(O)=O)C=N4)=NC(N)=C3N=C2	MEtabolite	DCTI-C-1635	1-(6-amino-9-((2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-9H-purin-2-yl)-1H-pyrazole-4-carboxylic acid	NA	Carboxylic Acid impurity	C14H15N7O6	377.32
2603		Regadenoson Impurity-D	O=C(C1=CN(C2=NC(N)=C3C(N([C@H]4[C@H](O)[C@H](O)[C@@H](CO)O4)C=N3)=N2)N=C1)OCC	impurity	DCTI-C-1629	ethyl 1-(6-amino-9-((2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-9H-purin-2-yl)-1H-pyrazole-4-carboxylate	NA	Regadenoson Pyrazole Acetate; Pyrazole Acetate	C16H19N7O6	405.37

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2604		Regadenoson Impurity-2	NC1=C2C(N([C@H]3[C@H](O)[C@H](O)[C@@H](CO)O3)C=N2)=NC(N4C=C(C(N(C)C)=O)C=N4)=N1	Impurity	DCTI-C-829	1-(6-amino-9-((2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-9H-purin-2-yl)-N,N-dimethyl-1H-pyrazole-4-carboxamide	313348-31-1	NA	C16H20N8O5	404.39
2605		Relugolix N-oxide Impurity	O=C(C(C(C[N+](C)([O-])C)=C(C1=CC=C(NC(NOC)=O)C=C1)S2)=C2N(CC3=C(F)C=CC=C3F)C4=O)N4C5=CC=C(OC)N=N5	Metabolite	DCTI-C-2157	1-(1-(2,6-difluorobenzyl)-3-(6-methoxypyridazin-3-yl)-6-(4-(3-methoxyure ido)phenyl)-2,4-dioxo-1,2,3,4-tetrahydrothieno[2,3-d] pyrimidin-5-yl)-N,N-dimethylmethanamine oxide	NA	NA	C29H27F2N7O6S	639.63
2606		Relugolix Amine Impurity	COC1=CC=C(N2C(C(C(CN(C)C)=C(C3=CC=C(N)C=C3)S4)=C4N(CC5=C(F)C=CC=C5F)C2=O)=O)N=N1	impurity	DCTI-C-2158	6-(4-aminophenyl)-1-(2,6-difluorobenzyl)-5-((dimethylamino)methyl)-3-(6-methoxypyridazin-3-yl) thieno[2,3-d] pyrimidine-2,4(1H,3H)-dione	1589503-93-4	Relugolix Impurity 23.	C27H24F2N6O3S	550.58
2607		Relugolix Chloro Impurity	O=C(C(C(CCl)=C(C1=CC=C(NC(NOC)=O)C=C1)S2)=C2N(CC3=C(F)C=CC=C3F)C4=O)N4C5=CC=C(OC)N=N5	Impurity	DCTI-C-2643	1-(4-(5-(chloromethyl)-1-(2,6-difluorobenzyl)-3-(6-methoxypyridazin-3-yl)-2,4-dioxo-1,2,3,4-tetrahydrothieno[2,3-d]pyrimidin-6-yl)phenyl)-3-methoxyurea	737790-51-1	Relugolix Impurity 19	C27H21ClF2N6O5S	615.01

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2608		Relugolix KSM 01 Impurity	O=C(C1=C(N(CC2=C(F)C=CC=C2F)C(OCC)=O)SC(C3=CC=C(N(=O)=O)C=C3)=C1C)OCC	Impurity	DCTI-C-2558	Ethyl 2-((2,6-difluorobenzyl) (ethoxycarbonyl)amino)-4-methyl-5-(4-nitrophenyl) thiophene-3-carboxylate	308831-94-9	Relugolix Impurity 45	C24H22F2N2O6S	504.5
2609		Relugolix KSM 02 Impurity	O=C(C1=C(N(CC2=C(F)C=CC=C2F)C(OCC)=O)SC(C3=CC=C(N(=O)=O)C=C3)=C1CBr)OCC	Impurity	DCTI-C-2559	Ethyl 4-(bromomethyl)-2-((2,6-difluorobenzyl) (ethoxycarbonyl)amino)-5-(4-nitrophenyl) thiophene-3-carboxylate	308831-95-0	Relugolix Impurity 46	C24H21BrF2N2O6S	583.4
2610		Relugolix thiophene acid impurity	O=C(O)C1=C(N(CC2=C(F)C=CC=C2F)C(NC3=CC=C(OC)N=N3)=O)SC(C4=CC=C(NC(NOC)=O)C=C4)=C1CN(C)C	IMPURITY	DCTI-C-2597	2-(1-(2,6-difluorobenzyl)-3-(6-methoxypyridazin-3-yl) ureido)-4-((dimethyl amino)methyl)-5-(4-(3-methoxyureido) phenyl) thiophene-3-carboxylic acid	NA	NA	C29H29F2N7O6S	641.65
2611		Relugolix Monofluoro thiophene acid Intermediate Impurity	OC(C(C(CN(C)C)=C(C1=CC=C([N+]([O-])=O)C=C1)S2)=C2N(C(OCC)=O)CC3=C(F)C=CC=C3)=O	IMPURITY	DCTI-C-2711	4-((dimethylamino)methyl)-2-((ethoxycarbonyl)(2-fluorobenzyl)amino)-5-(4-nitrophenyl)thiophene-3-carboxylic acid	NA	NA	C24H24FN3O6S	501.53
2612		Relugolix nitroso impurity (Mixture of isomers)	CONC(NC1=CC=C(C2=C(CN(N=O)C)C(C(N(C(N3CC4=C(F)C=CC=C4F)=O)C5=CC=C(N=N5)OC)=O)=C3S2)C=C1)=O	NDSRI	DCTI-C-2739	1-(4-(1-(2,6-difluorobenzyl)-3-(6-methoxypyridazin-3-yl)-5-((methyl(nitroso) amino)methyl)-2,4-dioxo-1,2,3,4-tetrahydrothieno[2,3-d]pyrimidin-6-yl)phenyl)-3-methoxy urea	NA	NA	C28H24F2N8O6S	638.61

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2613	Relugolix	Ethyl 4-(bromomethyl)-2-[[(2,6-difluorophenyl) methyl](propoxycarbonyl)amino]-5-(4-nitrophenyl)-3-thiophenecarboxylate	BrCC1=C(SC(N(C(OCCC)=O)CC2=C(F)C=CC=C2F)=C1C(OCC)=O)C3=CC=C([N+]([O-])=O)C=C3	Impurity	DCTI-C-3444	ethyl 4-(bromomethyl)-2-((2,6-difluorobenzyl)(propoxycarbonyl)amino)-5-(4-nitrophenyl)thiophene-3-carboxylate	2591260-07-8	Relugolix propyl carbamate impurity	C25H23BrF2N2O6S	597.43
2614		Relugolix Desfluoro Impurity	O=C(C(C(CN(C)C)=C(C1=CC=C(NC(NOC)=O)C=C1)S2)=C2N(CC3=CC=CC=C3F)C4=O)N4C5=CC=C(OC)N=N5	Impurity	DCTI-C-2381	1-(4-(5-((dimethylamino)methyl)-1-(2-fluorobenzyl)-3-(6-methoxypyridazin-3-yl)-2,4-dioxo-1,2,3,4-tetrahydrothieno[2,3-d]pyrimidin-6-yl)phenyl)-3-methoxyurea	NA	NA	C29H28FN7O5S	605.65
2615		Relugolix Impurity 2	CC1=C(C2=CC=C([N+]([O-])=O)C=C2)SC(N(C(OCC)=O)CC3=C(F)C=CC=C3F)=C1C(O)=O	Impurity	DCTI-C-2382	2-((2,6-difluorobenzyl)(ethoxycarbonyl)amino)-4-methyl-5-(4-nitrophenyl) thiophene-3-carboxylic acid	2566172-33-4	NA	C22H18F2N2O6S	476.45
2616		Relugolix Impurity 4	CN(C)CC1=C(C2=CC=C([N+]([O-])=O)C=C2)SC(N(C(OCC)=O)CC3=C(F)C=CC=C3F)=C1C(O)=O	Impurity	DCTI-C-2383	2-((2,6-difluorobenzyl)(ethoxycarbonyl)amino)-4-((dimethylamino)methyl)-5-(4-nitrophenyl) thiophene-3-carboxylic acid	1589503-95-6	NA	C24H23F2N3O6S	519.52
2617		Relugolix-Desfluoro ureido acid	O=C(O)C1=C(N(C(OCC)=O)CC2=C(F)C=CC=C2)SC(C3=CC=C(NC(NOC)=O)C=C3)=C1CN(C)C	Impurity	DCTI-C-2384	4-((dimethylamino)methyl)-2-((ethoxycarbonyl)(2-fluorobenzyl)amino)-5-(4-(3-methoxyureido)phenyl)thiophene-3-carboxylic acid	NA	NA	C26H29FN4O6S	544.6

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2618		Relugolix-Desfluoro ureido amide	O=C(NC1=CC=C(OC)N=N1)C2=C(N(C(OCC)=O)CC3=C(F)C=CC=C3)SC(C4=CC=C(NC(NOC)=O)C=C4)=C2CN(C)C	Impurity	DCTI-C-2385	ethyl (4-((dimethylamino)methyl)-3-((6-methoxypyridazin-3-yl)carbamoyl)-5-(4-(3-methoxyureido)phenyl)thiophen-2-yl)(2-fluorobenzyl)carbamate	NA	NA	C31H34FN7O6S	651.71
2619		Relugolix Impurity 31	O=C(OCC)C1=C(N(C(OCCC)=O)CC2=C(F)C=CC=C2F)SC(C3=CC=C(N)C=C3)=C1CN(C)C.Cl	Impurity	DCTI-C-2387	ethyl 5-(4-aminophenyl)-2-((2,6-difluorobenzyl)(propoxycarbonyl)amino)-4-((dimethylamino)methyl) thiophene-3-carboxylate hydrochloride	NA	NA	Salt: C27H32F2N3O4SCl ; Free base: C27H31F2N3O4S	salt: 568.08 ; Free base: 531.62
2620		Relugolix Impurity 22	CN(C)CC1=C(SC2=C1C(N(C(N2CC3=C(C=CC=C3F)F)=O)C4=CC=C(N=N4)OC)=O)C5=CC=C(C=C5)[N+]([O-])=O	Impurity	DCTI-C-2388	1-(2,6-difluorobenzyl)-5-((dimethylamino)methyl)-3-(6-methoxypyridazin-3-yl)-6-(4-nitrophenyl) thieno[2,3-d] pyrimidine-2,4(1H,3H)-dione	1589503-96-7	NA	C27H22F2N6O5S	580.57
2621		Relugolix impurity II	CONC(NC1=CC=C(C2=C(C)C(C(N(C(N3CC4=C(F)C=CC=C4F)=O)C5=CC=C(N=N5)OC)=O)=C3S2)C=C1)=O	Impurity	DCTI-C-3155	1-(4-(1-(2,6-difluorobenzyl)-3-(6-methoxy pyridazin-3-yl)-5-methyl-2,4-dioxo-1,2,3,4-tetra hydrothieno[2,3-d]pyrimidin-6-yl)phenyl)-3-methoxyurea	2681381-03-1	Relugolix impurity II	C27H22F2N6O5S	580.57
2622		Relugolix Impurity 19	CN(C)CC1=C(SC(N(C(OCC)=O)CC2=C(C=CC=C2F)F)=C1C(NC3=CC=C(Cl)N=N3)=O)C4=CC=C(C=C4)[N+]([O-])=O	Impurity	DCTI-C-2386	ethyl (3-((6-chloropyridazin-3-yl) carbamoyl)-4-((dimethylamino)methyl)-5-(4-nitrophenyl) thiophen-2-yl) (2,6-difluorobenzyl) carbamate	NA	NA	C28H25ClF2N6O5S	631.05

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2623		Remdesivir Impurity-1	OC[C@@H]1[C@@H](O)[C@@H](O)[C@](C2=CC=C3N2N=CN=C3N)(C#N)O1	impurity	DCTI-C-928	((2S,3R,4S,5R)-2-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-carbonitrile	1355049-95-4	Alpha -Isomer of Remdesivir	C12H13N5O4	291.27
2624		Remdesivir Impurity	NN1C(C#N)=CC=C1	impurity	DCTI-C-1507	1-Amino-1H-pyrrole-2-carbonitrile	159326-66-6	NA	C5H5N3	107.12
2625		Remdesivir impurity C	O[C@@H]1[C@@H](CO[P@@](N[C@@H](C)C(OCCCC)=O)(OC2=CC=CC=C2)=O)O[C@@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	impurity	DCTI-C-1584	butyl ((S)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	Remdesivir butyl impurity at S-isomerat nitrile, Remdesivir SSS butyl impurity	C25H31N6O8P	574.53
2626		Remdesivir Related compound 4	OC[C@@H]1[C@@H](O)[C@@H](O)[C@@](C2=CC=C3N2N=CN=C3N)(C#N)O1	Metabolite	DCTI-C-929	(2R,3R,4S,5R)-2-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-carbonitrile	1191237-69-0	Beta -Isomer of Remdesivir	C33H31N5O4	561.64
2627		(R)-Tri O-benzyl nitrile Impurity	NC1=NC=NN2C1=CC=C2[C@@]3(C#N)[C@H](OCC4=CC=CC=C4)[C@H](OCC5=CC=CC=C5)[C@@H](COCC6=CC=CC=C6)O3	impurity	DCTI-C-930	(2R,3R,4R,5R)-2-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-bis(benzyloxy)-5-((benzyloxy)methyl)tetrahydrofuran-2-carbonitrile	1355357-49-1	NA	C33H31N5O4	561.64

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2628		(S)-Tri-O-Benzyl Nitrile Impurity	NC1=NC=NN2C1=CC=C2[C@]3(C#N)[C@H](OCC4=CC=CC=C4)[C@H](OCC5=CC=CC=C5)[C@@H](COCC6=CC=CC=C6)O3	impurity	DCTI-C-931	(2S,3R,4R,5R)-2-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-bis(benzyloxy)-5-((benzyloxy)methyl)tetrahydrofuran-2-carbonitrile	1369903-46-7	NA	C33H31N5O4	561.64
2629		RDV PENTAFLUORO SR ISOMER	O=C([C@@H](N[P@@](OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O)C)OCC(CC)CC	impurity	DCTI-C-932	2-ethylbutyl ((R)-(perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	1911578-99-8	Remdesivir Pentafluoro SR Isomer	C21H23F5NO5P	495.38
2630		RDV PENTAFLUORO SS ISOMER	O=C([C@@H](N[P@](OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O)C)OCC(CC)CC	impurity	DCTI-C-933	2-ethylbutyl ((S)-(perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	1911578-98-7	Remdesivir Pentafluoro SS Isomer	C21H23F5NO5P	495.38
2631		RDV PENTAFLUORO RS ISOMER	O=C([C@H](N[P@](OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O)C)OCC(CC)CC	impurity	DCTI-C-934	2-ethylbutyl ((S)-(perfluorophenoxy)(phenoxy)phosphoryl)-D-alaninate	NA	Remdesivir Pentafluoro RS Isomer	C21H23F5NO5P	495.38

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2632		2-ethylbutyl ((R)-(4-nitrophenoxy)(phenoxy)phosphoryl)-D-alaninate	O=C([C@H](N[P@@](OC1=CC=CC=C1)(OC2=CC=C([N+]([O-])=O)C=C2)=O)C)OCC(CC)CC	Impurity	DCTI-C-975	2-ethylbutyl ((R)-(4-nitrophenoxy)(phenoxy)phosphoryl)-D-alaninate	NA	NA	C21H27N2O7P	450.43
2633		2-ethylbutyl ((S)-(4-nitrophenoxy)(phenoxy)phosphoryl)-D-alaninate	O=C([C@H](N[P@](OC1=CC=CC=C1)(OC2=CC=C([N+]([O-])=O)C=C2)=O)C)OCC(CC)CC	Impurity	DCTI-C-976	2-ethylbutyl ((S)-(4-nitrophenoxy)(phenoxy)phosphoryl)-D-alaninate	NA	NA	C21H27N2O7P	450.43
2634		Remdesivir Impurity 8	O=C([C@H](NP(OC1=CC=CC=C1)(O)=O)C)OCC(CC)CC.N	impurity	DCTI-C-935	2-ethylbutyl (hydroxy(phenoxy)phosphoryl)-D-alaninate, ammonia salt	NA	NA	C15H24NO5P (Free Base) C15H27N2O5P (Ammonium Salt)	329.33 (Free Base) 346.36 (Ammonium Salt)
2635		Remdesivir Impurity 14	O=C([C@@H](NP(OC1=CC=CC=C1)(O)=O)C)OCC(CC)CC.N	impurity	DCTI-C-936	2-ethylbutyl (hydroxy(phenoxy)phosphoryl)-L-alaninate, ammonia salt	NA	NA	C15H24NO5P (Free Base) C15H27N2O5P (Ammonium Salt)	329.33 (Free Base) 346.36 (Ammonium Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2636		Remdesivir Phosphate Impurity	O[C@@H]1[C@@H](COP(O)(O)=O)O[C@](C2=CC=C3N2N=CN=C3N)(C#N)[C@@H]1O	Metabolite	DCTI-C-977	((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methyl dihydrogen phosphate	NA	NA	C12H14N5O7P	371.25
2637		Des Phenyl Acid Impurity	O[C@@H]1[C@@H](COP(N[C@@H](C)C(O)=O)(O)=O)O[C@](C2=CC=C3N2N=CN=C3N)(C#N)[C@@H]1O	Metabolite	DCTI-C-978	((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(hydroxy)phosphoryl)-L-alanine	NA	NA	C15H19N6O8P	442.32
2638		Remdesivir Impurity-18	O[C@@H]1[C@@H](COP(OC2=CC=CC=C2)(O)=O)O[C@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	impurity	DCTI-C-937	((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxy tetrahydrofuran-2-yl)methyl phenyl hydrogen phosphate	NA	NA	C18H18N5O7P	447.34
2639		n-Butyl Impurity of Remdesivir	O[C@@H]1[C@@H](CO[P@@](N[C@@H](C)C(OCCCC)=O)(OC2=CC=CC=C2)=O)O[C@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	Impurity	DCTI-C-979	butyl ((S)-(((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C25H31N6O8P	574.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2640		n-Butyl (SRR) Remdesivir	O[C@@H]1[C@@H](CO[P@](N[C@@H](C)C(OCCCC)=O)(OC2=CC=CC=C2)=O)O[C@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	Impurity	DCTI-C-980	butyl ((R)-(((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C25H31N6O8P	574.53
2641		Remdesivir R-P isomer	O[C@@H]1[C@@H](CO[P@](N[C@@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	impurity	DCTI-C-938	2-ethylbutyl((R)-(((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	1911578-75-0	Diastereomer of Remdesivir, (S,R,R) Isomer of Remdesivir	C27H35N6O8P	602.58
2642		Remdesivir D-Alanine Isomer	O[C@@H]1[C@@H](CO[P@@](N[C@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	impurity	DCTI-C-939	2-ethylbutyl ((S)-(((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	2093124-26-4	Remdesivir RSR Isomer	C27H35N6O8P	602.58
2643		Remdesivir R-P D-Alanine isomer	O[C@@H]1[C@@H](CO[P@](N[C@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	impurity	DCTI-C-940	2-ethylbutyl ((R)-(((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	NA	Remdesivir RRR Isomer	C27H35N6O8P	602.58

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2644		Remdesivir- S-Isomer at CN	O[C@@H]1[C@@H](CO[P@@](N[C@@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	Impurity	DCTI-C-981	2-ethylbutyl ((S)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	Remdesivir SSS isomer	C27H35N6O8P	602.58
2645		Remdesivir R-P isomer and S-isomer at CN	O[C@@H]1[C@@H](CO[P@](N[C@@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	Impurity	DCTI-C-982	2-ethylbutyl ((R)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	Remdesivir SRS isomer	C27H35N6O8P	602.58
2646		RDV PENTAFLUORO RR ISOMER	O=C([C@H](N[P@@](OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O)C)OCC(CC)CC	Impurity	DCTI-C-1508	2-ethylbutyl ((R)-(perfluorophenoxy)(phenoxy)phosphoryl)-D-alaninate	NA	NA	C21H23F5NO5P	495.38
2647	**Remdesivir**	Remdesivir Bis Phosphate	O[C@@H]1[C@@H](COP(OC2=CC=CC=C2)(N[C@H](C)C(OCC(CC)CC)=O)=O)OC(C#N)(C3=CC=C4N3N=CN=C4NP(OC5=CC=CC=C5)(N[C@H](C)C(OCC(CC)CC)=O)=O)[C@@H]1O	Impurity	DCTI-C-1509	2-ethylbutyl (((7-((3R,4S,5R)-2-cyano-5-((((((R)-1-(2-ethylbutoxy)-1-oxopropan-2-yl)amino)(phenoxy)phosphoryl)oxy)methyl)-3,4-dihydroxy tetrahydrofuran-2-yl)pyrrolo[2,1-f][1,2,4]triazin-4-yl)amino)(phenoxy) phosphoryl)-D-alaninate	NA	NA	C42H57N7O12P2	913.9

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2648		REMDESIVIR METHYL ESTER	C[C@H](NP(OC1=CC=CC=C1)(OC[C@H]2O[C@@](C#N)(C3=CC=C4C(N)=NC=NN43)[C@H](O)[C@@H]2O)=O)C(OC)=O	Impurity	DCTI-C-1510	methyl ((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C22H25N6O8P	532.45
2649		Remdesivir R-P D-Alanine isomer and S-isomer at CN	O[C@@H]1[C@@H](CO[P@](N[C@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	Impurity	DCTI-C-983	2-ethylbutyl ((R)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	NA	Remdesivir RRS isomer	C27H35N6O8P	602.58
2650		Remdesivir D-Alanine isomer and S-isomer at CN	O[C@@H]1[C@@H](CO[P@@](N[C@H](C)C(OCC(CC)CC)=O)(OC2=CC=CC=C2)=O)O[C@@](C3=CC=C4N3N=CN=C4N)(C#N)[C@@H]1O	Impurity	DCTI-C-984	2-ethylbutyl ((S)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	NA	Remdesivir RSS isomer	C27H35N6O8P	602.58
2651		2-ethylbutyl D-alaninate hydrochloride	O=C([C@H](N)C)OCC(CC)CC.Cl	impurity	DCTI-C-941	2-ethylbutyl D-alaninate hydrochloride	2096981-79-0	NA	C9H19NO2 (Free Base) C9H20ClNO2 (Salt	173.26 (Free Base) 209.71 (Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2652		2-ethylbutyl L-alaninate hydrochloride	O=C([C@@H](N)C)OCC(CC)CC.Cl	impurity	DCTI-C-942	2-ethylbutyl L-alaninate hydrochloride	946511-97-3	NA	C9H19NO2 (Free Base) C9H20ClNO2 (HCl Salt)	173.26 (Free Base) 209.71 (HCl Salt)
2653		Butyl ((S)-(perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	C[C@@H](C(OCCCC)=O)N[P@](OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O	impurity	DCTI-C-1018	butyl ((S)-(perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	1392015-43-8	butyl ((S)-(perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	C19H19F5NO5P	467.33
2654		Remdesivir Acetonide Impurity	NC1=NC=NN2C1=CC=C2[C@@]3(C#N)[C@H]4[C@H](OC(C)(C)O4)[C@@H](CO[P@@](N[C@@H](C)C(OCC(CC)CC)=O)(OC5=CC=CC=C5)=O)O3	impurity	DCTI-C-1019	2-Ethylbutyl ((S)-(((3aR,4R,6R,6aR)-6-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-6-cyano-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxol-4-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	1884576-18-4	Remdesivir Acetonide Impurity	C30H39N6O8P	642.64
2655		Remdesivir Des Phenyl Impurity	O[C@@H]1[C@@H](CO[P@](N[C@@H](C)C(OCC(CC)CC)=O)(O)=O)O[C@](C2=CC=C3N2N=CN=C3N)(C#N)[C@@H]1O	impurity	DCTI-C-1020	2-ethylbutyl ((S)-(((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(hydroxy)phosphoryl)-L-alaninate	NA	Remdesivir Des Phenyl Impurity	C21H31N6O8P	526.49

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2656		Remdesivir O-Des phosphate Acetonide Impurity	OC[C@@H]1[C@@H](OC(C)(C)O2)[C@@H]2[C@@](C3=CC=C4N3N=CN=C4N)(C#N)O1	impurity	DCTI-C-1021	(3aR,4R,6R,6aR)-4-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-6-(hydroxymethyl)-2,2-dimethyl tetrahydrofuro [3,4-d][1,3]dioxole-4-carbonitrile	1191237-80-5	Remdesivir Acetonide Impurity	C15H17N5O4	331.33
2657		tert-butyl ((perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	O=C([C@@H](NP(OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O)C)OC(C)(C)C	impurity	DCTI-C-1022	tert-butyl ((perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate.	NA	NA	C19H19F5NO5P	467.33
2658		Tri-(O) benzyl nitrile impurity	NC1=NC=NN2C1=CC=C2C3(C#N)[C@H](OCC4=CC=CC=C4)[C@H](OCC5=CC=CC=C5)[C@@H](COCC6=CC=CC=C6)O3	impurity	DCTI-C-1023	(3R,4R,5R)-2-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-bis(benzyloxy)-5-((benzyloxy)methyl)tetrahydrofuran-2-carbonitrile	1191237-68-9	Remdesivir Tri-(O) benzyl nitrile racemic mixture	C33H31N5O4	561.64
2659		Remdesivir tert-butyl ester	CC(NP(OC1=CC=CC=C1)(OC[C@H]2O[C@@](C#N)(C3=CC=C4C(N)=NC=NN43)[C@H](O)[C@@H]2O)=O)C(OC(C)(C)C)=O	impurity	DCTI-C-1078	tert-butyl ((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)alaninate	NA	NA	C25H31N6O8P	574.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2660		Di-N-Benzyl Remdesivir	O[C@@H]1[C@@H](CO[P@](OC2=CC=CC=C2)(N[C@@H](C)C(OCC(CC)CC)=O)=O)O[C@](C3=CC=C4N3N=CN=C4N(CC5=CC=CC=C5)CC6=CC=CC=C6)(C#N)[C@@H]1O	impurity	DCTI-C-1252	2-ethylbutyl ((S)-(((2R,3S,4R,5R)-5-cyano-5-(4-(dibenzylamino)pyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C41H47N6O8P	782.83
2661		Tri Ol N-Mono Benzyl Remdesivir Impurity	OC[C@@H]1[C@@H](O)[C@@H](O)[C@@](C2=CC=C3N2N=CN=C3NCC4=CC=CC=C4)(C#N)O1	impurity	DCTI-C-1253	(2R,3R,4S,5R)-2-(4-(benzylamino)pyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-carbonitrile	NA	NA	C19H19N5O4	381.39
2662		Tri Ol N-dibenzyl Remdesivir Impurity	OC[C@@H]1[C@@H](O)[C@@H](O)[C@@](C2=CC=C3N2N=CN=C3N(CC4=CC=CC=C4)CC5=CC=CC=C5)(C#N)O1	impurity	DCTI-C-1254	(2R,3R,4S,5R)-2-(4-(dibenzylamino)pyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-carbonitrile	NA	NA	C26H25N5O4	471.52
2663		Mono-N-Benzyl Remdesivir	O[C@@H]1[C@@H](CO[P@](OC2=CC=CC=C2)(N[C@@H](C)C(OCC(CC)CC)=O)=O)O[C@](C3=CC=C4N3N=CN=C4NCC5=CC=CC=C5)(C#N)[C@@H]1O	impurity	DCTI-C-1255	2-ethylbutyl ((S)-(((2R,3S,4R,5R)-5-(4-(benzylamino)pyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C34H41N6O8P	692.71

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2664		2-butyl ((S)-(perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	C[C@@H](C(O[C@H](CC)C)=O)NP(OC1=CC=CC=C1)(OC2=C(F)C(F)=C(F)C(F)=C2F)=O	impurity	DCTI-C-1172	(S)-sec-butyl ((perfluorophenoxy)(phenoxy)phosphoryl)-L-alaninate	1673560-27-4	NA	C19H19F5NO5P	467.33
2665		Remdesivir Tri-o-Benzyl Hydroxy Intermediate	OC1(C2=CC=C3N2N=CN=C3N)[C@H](OCC4=CC=CC=C4)[C@H](OCC5=CC=CC=C5)[C@@H](COCC6=CC=CC=C6)O1	Impurity	DCTI-C-1511	(3R,4R,5R)-2-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-3,4-bis(benzyloxy)-5-((benzyloxy)methyl)tetrahydrofuran-2-ol	1355049-94-3	NA	C32H32N4O5	552.63
2666		Remdesivir Impurity-D	O=C([C@@H](N[P@](OC1=CC=CC=C1)(OC2=CC=C([N+]([O-])=O)C=C2)=O)C)OCC(CC)CC	Impurity	DCTI-C-1512	2-ethylbutyl ((S)-(4-nitrophenoxy)(phenoxy)phosphoryl)-L-alaninate	1354823-36-1	NA	C21H27N2O7P	450.43
2667		Remdesivir Impurity	NC1=NC=NN2C(I)=CC=C21	impurity	DCTI-C-1513	7-Iodopyrrolo[2,1-f][1,2,4]triazin-4-amine	1770840-43-1	NA	C6H5IN4	259.96

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2668		RDV Nitrophenol R-Isomer	O=C([C@@H](N[P@@](OC1=CC=CC=C1)(OC2=CC=C([N+]([O-])=O)C=C2)=O)C)OCC(CC)CC	Impurity	DCTI-C-1514	2-ethylbutyl ((R)-(4-nitrophenoxy)(phenoxy)phosphoryl)-L-alaninate	1354823-37-2	Remdesivir Related Compound 12	C21H27N2O7P	450.43 (free base)
2669		Pyrrolo[2,1-f][1,2,4]triazin-4-amine	NC1=NC=NN2C1=CC=C2	impurity	DCTI-C-1515	pyrrolo[2,1-f][1,2,4]triazin-4-amine	159326-68-8	Remdesivir Impurity	C6H6N4	134.14
2670		Remdesivir Impurity 8 Other Isomer	O=C([C@@H](N[P@@](OC1=CC=CC=C1)(O)=O)C)OCC(CC)CC	impurity	DCTI-C-1173	2-ethylbutyl ((S)-hydroxy(phenoxy)phosphoryl)-L-alaninate	NA	Remdesivir Impurity 8 SS Isomer	C15H24NO5P	329.33
2671		Remdesivir Amide Impurity	C[C@H](N[P@@](OC1=CC=CC=C1)(OC[C@H]2O[C@@](C3=CC=C4C(N)=NC=NN43)([C@@H]([C@@H]2O)O)C(N)=O)=O)C(OCC(CC)CC)=O	Impurity	DCTI-C-3276	2-ethylbutyl ((S)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-carbamoyl-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	Des phenyl alanine impurity	C27H37N6O9P	620.6
2672		SRS-Remdesivir Butyl Impurity	C[C@H](N[P@](OC1=CC=CC=C1)(OC[C@H]2O[C@](C3=CC=C4C(N)=NC=NN43)([C@@H]([C@@H]2O)O)C#N)=O)C(OCCCC)=O	Impurity	DCTI-C-3423	butyl ((R)-(((2R,3S,4R,5S)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	NA	Remdesivir SRS Butyl Impurity	C25H31N6O8P	574.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2673	**Resveratrol**	cis-Resveratrol	OC1=CC(/C=C\C2=CC=C(O)C=C2)=CC(O)=C1	Impurity	DCTI-C-3332	(Z)-5-(4-hydroxystyryl)benzene-1,3-diol	61434-67-1	5-[(1Z)-2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol; cis-3,4',5-Trihydroxystilbene; Z-5-[2-(4-Hydroxy phenyl)ethenyl]-1,3-benzenediol; (Z)-Resveratrol;	C14H12O3	228.25
2674	**Retinoic Acid**	4-Oxo-all-trans Retinoic Acid	O=C1CCC(C)(C)C(/C=C/C(C)=C/C=C/C(C)=C/C(O)=O)=C1C	Metabolite	DCTI-C-1297	(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethyl-3-oxocyclohex-1-en-1-yl)nona-2,4,6,8-tetraenoic acid	38030-57-8	4-Oxoretinoic Acid; 4-Ketoretinoic Acid; 4-Oxo-all-trans-retinoic acid; 4-Oxo-atRA; 4-Oxotretinoin; 4-keto-Retinoic Acid; Ro 11-4824; Ro 12-4824; all-trans-4-Oxoretinoic Acid; all-trans 4-Keto Retinoic Acid	C20H26O3	314.43
2675		4-Oxo-9-Cis Retinoic acid	CC(/C=C/C=C(\C=C\C1=C(C(CCC(C)1C)=O)C)C)=C\C(O)=O	impurity	DCTI-C-1873	(2E,4E,6Z,8E)-3,7-dimethyl-9-(2,6,6-trimethyl-3-oxocyclohex-1-en-1-yl)nona-2,4,6,8-tetraenoic acid	NA	4-keto-9-cis-retinoic acid; 9-cis-4-Oxoretinoic acid (ACI (check and confirm, bracket not closed)	C20H26O3	314.43
2676		All-trans 5,6-Epoxy Retinoic Acid	O=C(O)/C=C(C)/C=C/C=C(C)/C=C/C12C(C)(O2)CCCC1(C)C	impurity	DCTI-C-2159	(2E,4E,6E,8E)-3,7-dimethyl-9-(2,2,6-trimethyl-7-oxabicyclo[4.1.0]heptan-1-yl)nona-2,4,6,8-tetraenoic acid	13100-69-1	5,6-Epoxy-5,6-dihydroretinoic acid;5,6-Epoxy-atRA;5,6-Epoxyretinoic acid;5,6-Epoxy-all-trans-Retinoic Acid;5,6-epoxy-5,6-dihydro-retinoic acid	C20H28O3	316.42
2677		5,6-Epoxy-9-Cis-Retinoic Acid	CC1(C)CCCC2(C)C1(/C=C/C(C)=C\C=C\C(C)=C\C(O)=O)O2	impurity	DCTI-C-1874	(2E,4E,6Z,8E)-3,7-dimethyl-9-(2,2,6-trimethyl-7-oxabicyclo[4.1.0]heptan-1-yl)nona-2,4,6,8-tetraenoic acid	NA	9-cis-5,6-Epoxy-5,6-dihydroretinoic acid	C20H28O3	316.44
2678		4-Hydroxy-all-trans Retinoic acid	OC1CCC(C)(C)C(/C=C/C(C)=C/C=C/C(C)=C/C(O)=O)=C1C	Metabolite	DCTI-C-1298	(2E,4E,6E,8E)-9-(3-hydroxy-2,6,6-trimethylcyclohex-1-en-1-yl)-3,7-dimethylnona-2,4,6,8-tetraenoic acid	66592-72-1	4-Hydroxyretinoic acid; all-trans-4-hydroxyretinoic acid	C20H28O3	316.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2679		Ethyl retinoate	CC1(C)C(/C=C/C(C)=C/C=C/C(C)=C/C(OCC)=O)=C(C)CCC1	Impurity	DCTI-C-3029	Ethyl (2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraenoate	3899-20-5	Ethyl All trans retinoate Vitamin A1 acid ethyl ester	C22H32O2	328.5
2680		Ethyl retinoate	CC1(C)C(/C=C/C(C)=C/C=C/C(C)=C/C(OCC)=O)=C(C)CCC1	Impurity	DCTI-C-3029	Ethyl (2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraenoate	3899-20-5	Ethyl All trans retinoate Vitamin A1 acid ethyl ester	C22H32O2	328.5
2681	**Retinal**	all-trans-Retinal	CC1(C)C(/C=C/C(C)=C/C=C/C(C)=C/C=O)=C(C)CCC1	Impurity	DCTI-C-2870	(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraenal	116-31-4	Vitamin A aldehyde; all-E-Retinal; trans-Vitamin A aldehyde	C20H28O	284.44
2682		5-Bromo-N2,N4-dicyclopentylpyrimidine-2,4-diamine	BrC1=CN=C(NC2CCCC2)N=C1NC3CCCC3	Impurity	DCTI-C-300	5-bromo-N2,N4-dicyclopentylpyrimidine-2,4-diamine	NA	NA	C14H21BrN4	325.25
2683		RCB-Cyclopentyl Amine Hydroxy Methyl Impurity	OCC1=CC2=CN=C(NC3CCCC3)N=C2N1C4CCCC4	Impurity	DCTI-C-302	(7-cyclopentyl-2-(cyclopentylamino)-7H-pyrrolo[2,3-d]pyrimidin-6-yl)methanol	NA	NA	C17H24N4O	300.41
2684		Triphenyl Iso-Propyl Ether Impurity	CC(C)OC(C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3	impurity	DCTI-C-2068	(Isopropoxymethanetriyl)tribenzene	13594-78-0	Isopropyl trityl ether, [DIPHENYL(PROPAN-2-YLOXY) METHYL]BENZENE.	C22H22O	302.42
2685		Amino Trityl Impurity	NC(N=C1)=CC=C1N(CC2)CCN2C(C3=CC=CC=C3)(C4=CC=CC=C4)C5=CC=CC=C5	impurity	DCTI-C-2160	5-(4-tritylpiperazin-1-yl)pyridin-2-amine	2524428-13-3	Ribociclib Amino Trityl Impurity	C28H28N4	420.56

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2686	Ribociclib	Amine impurity	CN(C(C1=CC2=C(N1C3CCCC3)N=C(N)N=C2)=O)C	impurity	DCTI-C-2161	2-amino-7-cyclopentyl-N,N-dimethyl-7H-pyrrolo[2,3-d]pyrimidine-6-carboxamide	1331847-17-6	Ribociclib Amine impurity	C14H19N5O	273.34
2687		Chloroamide Impurity	CN(C(C1=CC2=CN=C(Cl)N=C2N1C3CCCC3)=O)C	impurity	DCTI-C-2162	2-chloro-7-cyclopentyl-N,N-dimethyl-7H-pyrrolo[2,3-d]pyrimidine-6-carboxamide	1211443-61-6	Ribociclib Chloro Amide Impurity.	C14H17ClN4O	292.77
2688		N-Trityl Ribociclib	O=C(C1=CC2=CN=C(NC(N=C3)=CC=C3N(CC4)CCN4C(C5=CC=CC=C5)(C6=CC=CC=C6)C7=CC=CC=C7)N=C2N1C8CCCC8)N(C)C	impurity	DCTI-C-2163	7-cyclopentyl-N,N-dimethyl-2-((5-(4-tritylpiperazin-1-yl)pyridin-2-yl)amino)-7H-pyrrolo[2,3-d]pyrimidine-6-carboxamide	2524428-16-6	NA	C42H44N8O	676.87
2689		RCB-Alkyne Hydroxy Methyl Impurity	OCC#CC1=NC=C2C(N(C3CCCC3)C(CO)=C2)=N1	Impurity	DCTI-C-303	3-(7-cyclopentyl-6-(hydroxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-2-yl)prop-2-yn-1-ol	NA	NA	C15H17N3O2	271.32
2690		RCB-cyclopentylamine acid impurity	O=C(C1=CC2=CN=C(NC3CCCC3)N=C2N1C4CCCC4)O	Impurity	DCTI-C-304	7-cyclopentyl-2-(cyclopentylamino)-7H-pyrrolo[2,3-d]pyrimidine-6-carboxylic acid	NA	NA	C17H22N4O2	314.39
2691		RCB-Alkyne Acid Impurity	O=C(C1=CC2=CN=C(C#CCO)N=C2N1C3CCCC3)O	Impurity	DCTI-C-305	7-cyclopentyl-2-(3-hydroxyprop-1-yn-1-yl)-7H-pyrrolo[2,3-d]pyrimidine-6-carboxylic acid	NA	NA	C15H15N3O3	285.3

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2692		RCB - Cyclopentyl amine alkyne impurity	OCC#CC1=CN=C(NC2CCCC2)N=C1Cl	Impurity	DCTI-C-306	3-(4-chloro-2-(cyclopentylamino)pyrimidin-5-yl)prop-2-yn-1-ol	NA	NA	C12H14ClN3O	251.71
2693		RCB-Chloro dimer impurity	ClC1=NC(N2C3CCCC3)=C(C=N1)C=C2COC4=NC=C5C(N(C6CCCC6)C(C(O)=O)=C5)=N4	Impurity	DCTI-C-328	2-((2-chloro-7-cyclopentyl-7H-pyrrolo[2,3-d]pyrimidin-6-yl)methoxy)-7-cyclopentyl-7H-pyrrolo[2,3-d]pyrimidine-6-carboxylic acid	NA	Ribociclib Impurity 5	C24H25ClN6O3	480.95
2694		5-bromo-4-chloro-N-cyclopentylpyrimidin-2-amine	BrC1=CN=C(NC2CCCC2)N=C1Cl	Impurity	DCTI-C-343	5-bromo-4-chloro-N-cyclopentylpyrimidin-2-amine	1823404-28-9	NA	C9H11BrClN3	276.56
2695		2-chloro-N-cyclopentylpyrimidin-4-amine	ClC1=NC(NC2CCCC2)=CC=N1	Impurity	DCTI-C-363	2-chloro-N-cyclopentylpyrimidin-4-amine	868591-58-6	Ribociclib Impurity-3	C9H12ClN3	197.67
2696		RCB-N-Oxide Impurity	O=C(C1=CC2=CN=C(NC3=NC=C([N+]4([O-])CCNCC4)C=C3)N=C2N1C5CCCC5)N(C)C	Metabolite	DCTI-C-459	1-(6-((7-cyclopentyl-6-(dimethylcarbamoyl)-7H-pyrrolo[2,3-d]pyrimidin-2-yl)amino)pyridin-3-yl)piperazine 1-oxide	NA	RCB-Piperazine 1-oxide; Ribociclib N-Oxide	C23H30N8O2	450.55
2697		Ribociclib Piperizine Impurity	CN(C(C1=CC2=C(N1C3CCCC3)N=C(N4CCNCC4)N=C2)=O)C.Cl	impurity	DCTI-C-2767	7-cyclopentyl-N,N-dimethyl-2-(piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine-6-carboxamide hydrochloride	NA	NA	C18H26N6O (Free Base) C18H27ClN6O (HCl Salt)	342.45 (Free Base) 378.91 (HCl Salt)
2698		Rilpivirine Impurity 2	N#CC1=CC=C(NC2=NC=CC(N(C)C3=C(C)C=C(/C=C\C#N)C=C3C)=N2)C=C1	Impurity	DCTI-C-475	(Z)-4-((4-((4-(2-cyanovinyl)-2,6-dimethylphenyl)(methyl)amino)pyrimidin-2-yl)amino)benzonitrile	NA	Rilpivirine Impurity 2 (Z-isomer)	C23H20N6	380.46

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2699		Rilpivirine Impurity 3	N#CC1=CC=C(N(C)C2=NC=CC(NC3=C(C)C=C(/C=C\C#N)C=C3C)=N2)C=C1	Impurity	DCTI-C-476	(Z)-4-((4-((4-(2-cyanovinyl)-2,6-dimethylphenyl)amino)pyrimidin-2-yl)(methyl)amino)benzonitrile	NA	Rilpivirine Impurity 3 (Z-isomer)	C23H20N6	380.46
2700		Rilpivirine Impurity 4	N#CC1=CC=C(NC2=NC=CC(N(C)C3=C(C)C=C(/C=C/C#N)C=C3C)=N2)C=C1	Impurity	DCTI-C-477	(E)-4-((4-((4-(2-cyanovinyl)-2,6-dimethylphenyl)(methyl)amino)pyrimidin-2-yl)amino)benzonitrile	NA	Rilpivirine Impurity 4 (E-isomer)	C23H20N6	380.46
2701		Rilpivirine Impurity 6	CNC1=C(C)C=C(/C=C/C#N)C=C1C	Impurity	DCTI-C-478	(E)-3-(3,5-dimethyl-4-(methylamino)phenyl)acrylonitrile	NA	Rilpivirine Side Chain (E-isomer)	C12H14N2	186.26
2702	**Rilpivirine**	Rilpivirine Impurity 6 - Z Isomer	CNC1=C(C)C=C(/C=C\C#N)C=C1C	Impurity	DCTI-C-479	(Z)-3-(3,5-dimethyl-4-(methylamino)phenyl)acrylonitrile	NA	Rilpivirine Side Chain (Z-isomer)	C12H14N2	186.26
2703		Rilpivirine Amide Impurity-1	N#CC1=CC=C(NC2=NC=CC(NC3=C(C)C=C(/C=C/C(N)=O)C=C3C)=N2)C=C1	Impurity	DCTI-C-801	(E)-3-(4-((2-((4-cyanophenyl)amino)pyrimidin-4-yl)amino)-3,5-dimethylphenyl)acrylamide	500288-66-4	NA	C22H20N6O	384.44
2704		Rilpivirine Amide Impurity-2	CC1=C(NC2=NC(NC3=CC=C(C(N)=O)C=C3)=NC=C2)C(C)=CC(/C=C/C#N)=C1	Impurity	DCTI-C-802	(E)-4-((4-((4-(2-cyanovinyl)-2,6-dimethylphenyl)amino)pyrimidin-2-yl)amino)benzamide	1446439-51-5	NA	C22H20N6O	384.44

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2705		Rilpivirine Desmethyl Impurity	N#CC1=CC=C(NC2=NC=CC(NC3=C(C)C=C(/C=C/C#N)C=C3)=N2)C=C1	Impurity	DCTI-C-826	(E)-4-((4-((4-(2-cyanovinyl)-2-methylphenyl)amino)pyrimidin-2-yl)amino)benzonitrile	500292-48-8	NA	C21H16N6	352.4
2706		Rilpivirine Methyl Ester Impurity	O=C(OC)C(C=C1)=CC=C1NC2=NC(NC3=C(C)C=C(/C=C/C#N)C=C3C)=CC=N2	Impurity	DCTI-C-827	methyl (E)-4-((4-((4-(2-cyanovinyl)-2,6-dimethylphenyl)amino)pyrimidin-2-yl)amino)benzoate	NA	NA	C23H21N5O2	399.45
2707	**Riluzole**	Riluzole Impurity A	NC1=CC=C(OC(F)(F)F)C=C1SC#N	Impurity	DCTI-C-2659	2-thiocyanato-4-(trifluoromethoxy)aniline	1391054-04-8	2-Amino-5-(trifluoromethoxy)phenyl thiocyanate; Thiocyanic Acid 2-Amino-5-(trifluoromethoxy)phenyl Ester; Riluzole Impurity 1	C8H5F3N2OS	234.2
2708		1-(4-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride [m-Fluro FPC]	NC(C1=NN(CC2=CC(F)=CC=C2)C3=NC=CC=C31)=N.Cl	Impurity	DCTI-C-431	1-(3-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride	2101651-50-5 (Free base)	Riociguat Impurity, m-Fluro FPC	C14H12FN5 (Free Base) C14H13ClFN5 (HCl Salt)	269.28 (Free Base) 305.74 (HCl Salt)
2709		1-(4-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride [P-Fluro FPC]	NC(C1=NN(CC2=CC=C(F)C=C2)C3=NC=CC=C31)=N.Cl	Impurity	DCTI-C-432	1-(4-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride	NA	Riociguat Impurity, P-Fluro FPC	C14H12FN5 (Free Base) C14H13ClFN5 (HCl Salt)	269.28 (Free Base) 305.74 (HCl Salt)
2710		1-benzyl-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride [Desfluro FPC]	NC(C1=NN(CC2=CC=CC=C2)C3=NC=CC=C31)=N.Cl	Impurity	DCTI-C-433	1-benzyl-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride	NA	Riociguat Impurity, Desfluro FPC	C14H13N5 (Free Base) C14H14ClN5 (HCl Salt)	251.29 (Free Base) 287.75 (HCl Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2711	**Riociguat**	Riociguat Nitroso Impurity-1	FC1=CC=CC=C1CN2C3=NC=CC=C3C(C4=NC(N)=C(C(N)=N4)N(N=O)C)=N2	NDSRI	DCTI-C-3100	N-(4,6-diamino-2-(1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)pyrimidin-5-yl)-N-methylnitrous amide	NA	NA	C18H16FN9O	393.39
2712		Riociguat Nitroso USP Related Compound C	FC1=CC=CC=C1CN2C3=NC=CC=C3C(C4=NC(N)=C(C(N(N=O)C)=N4)N(C)C(OC)=O)=N2	NDSRI	DCTI-C-3256	methyl (4-amino-2-(1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)-6-(methyl(nitroso)amino)pyrimidin-5-yl)(methyl)carbamate	NA	NA	C21H20FN9O3	465.45
2713		Riociguat Impurity-14	FC1=CC=CC=C1CN2C3=NC=CC=C3C(C4=NC(N)=C5N(C)C(N(C)C5=N4)=O)=N2	Impurity	DCTI-C-3295	6-amino-2-(1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)-7,9-dimethyl-7,9-dihydro-8H-purin-8-one	1361569-23-4	NA	C20H17FN8O	404.41
2714		Riociguat Impurity 10	NC1=C(C(N)=NC(C2=NN(C3=C2C=CC=N3)CC4=CC=CC=C4)=N1)N(C(OC)=O)C	Impurity	DCTI-C-3674	methyl (4,6-diamino-2-(1-benzyl-1H-pyrazolo[3,4-b]pyridin-3-yl)pyrimidin-5-yl)(methyl)carbamate	NA	NA	C20H20N8O2	404.43
2715		Riociguat Methyl Dihydropurinone	CN1C(NC2=NC(C3=NN(CC4=CC=CC=C4F)C5=NC=CC=C53)=NC(N)=C21)=O	Impurity	DCTI-C-3690	6-amino-2-(1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)-7-methyl-7,9-dihydro-8H-purin-8-one	1361569-18-7	Riociguat impurity 13	C19H15FN8O	390.38
2716		RIOCIGUAT METABOLITE M3	NC1=C(C(N)=NC(C2=NNC3=C2C=CC=N3)=N1)N(C(OC)=O)C	metabolite	DCTI-C-3736	methyl (4,6-diamino-2-(1H-pyrazolo[3,4-b]pyridin-3-yl)pyrimidin-5-yl)(methyl)carbamate	2298383-24-9	1.M3(N DeBenzylated metabolite of Riociguat) 2. RIOCIGUAT N-Desfluorobenzyl impurity	C13H14N8O2	314.31

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2717		Ritonavir Enantiomer	O=C([C@@H](C(C)C)NC(N(C)CC1=CSC(C(C)C)=N1)=O)N[C@H](CC2=CC=CC=C2)C[C@@H](O)[C@@H](CC3=CC=CC=C3)NC(OCC4=CN=CS4)=O	Impurity	DCTI-C-594	thiazol-5-ylmethyl ((2R,3R,5R)-3-hydroxy-5-((R)-2-(3-((2-isopropylthiazol-4-yl)methyl)-3-methylureido)-3-methylbutanamido)-1,6-diphenylhexan-2-yl)carbamate	NA	NA	C37H48N6O5S2	720.95
2718		Ritonavir O-Acyl isomer	CC(C)C1=NC(CN(C)C(N[C@@H](C(C)C)C(O[C@H]([C@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O)C[C@H](CC4=CC=CC=C4)N)=O)=O)=CS1	impurity	DCTI-C-1809	(2S,3S,5S)-5-amino-1,6-diphenyl-2-(((thiazol-5-ylmethoxy)carbonyl)amino) hexan-3-yl (((2-isopropylthiazol-4-yl)methyl)(methyl)carbamoyl)-L-valinate	959315-21-0	Ritonavir Geo-isomer.	C37H48N6O5S2	720.95
2719		2,5-Thiazolylmethyl dicarbamate Ritonavir	O=C(OCC1=CN=CS1)N[C@@H](CC2=CC=CC=C2)[C@@H](O)C[C@@H](NC(OCC3=CN=CS3)=O)CC4=CC=CC=C4	impurity	DCTI-C-1806	Thiazol-5-yl-methyl[(1S,2S,4S)-1-benzyl-2-hydroxy-5-phenyl-4-[[(thiazol-5-yl-metho xy)carbonyl] amino]pentyl] carbamate	NA	2,5-Thiazolylmethyl-dicarbamate Ritonavir (USP); 1,3-Thiazol-5-ylmethyl N-[(1S,3S,4S)-1-benzyl-3-hydroxy-5-phenyl-4-[[(1,3-thiazol-5-ylmethoxy) carbonyl] amino] pentyl]carbamate; C,C'-Bis(5-thiazolylmethyl)N,N'-[(1S,2S,4S)-2-hydroxy-1,4-	C28H30N4O5S2	566.69
2720		Ritonavir Acetamidoalcohol	O=C(OCC1=CN=CS1)N[C@@H](CC2=CC=CC=C2)[C@@H](O)C[C@@H](NC(C)=O)CC3=CC=CC=C3	impurity	DCTI-C-1807	Thiazol-5-ylmethyl ((2S,3S,5S)-5-acetamido-3-hydroxy-1,6-diphenylhexan-2-yl)carbamate	NA	Ritonavir EP Impurity C; Acetamido-Alcohol Ritonavir (USP); Thiazol-5-yl-methyl[(1S, 2S, 4S)-4-(acetylamino)-1-benzyl-2-hydroxy-5-phenylpentyl]carbamate	C25H29N3O4S	467.58
2721		Hydantoin Aminoalcohol Ritonavir	O=C(OCC1=CN=CS1)N[C@@H](CC2=CC=CC=C2)[C@@H](O)C[C@@H](N3C([C@@H](NC3=O)C(C)C)=O)CC4=CC=CC=C4	impurity	DCTI-C-1808	thiazol-5-ylmethyl ((2S,3S,5S)-3-hydroxy-5-((S)-4-isopropyl-2,5-dioxoimida zolidin-1-yl)-1,6-diphenylhexan-2-yl)carbamate	NA	Ritonavir EP Impurity F; Thiazol-5-yl-methyl [(1S,2S,4S)-1-benzyl-4-[[(2S)-1-benzyl-2-hydroxy-4-[(4S)-4-(1-methylethyl)-2,5-dioxoimidazolidin-1-yl]-5-phenylpentyl]carb amate	C29H34N4O5S	550.67

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2722		O-Acyl Ritonavir	CC(C)[C@H](NC(N(C)CC1=CSC(C(C)C)=N1)=O)C(O[C@H]([C@@H](NC(OCC2=CN=CS2)=O)CC3=CC=CC=C3)C[C@@H](NC([C@@H](NC(N(C)CC4=CSC(C(C)C)=N4)=O)C(C)C)=O)CC5=CC=CC=C5)=O	impurity	DCTI-C-1809	(2S,3S,5S)-5-((S)-2-(3-((2-isopropylthiazol-4-yl)methyl)-3-methylureido)-3-methylbutanamido)-1,6-diphenyl-2-(((thiazol-5-ylmethoxy)carbonyl)amino)hexan-3-yl (((2-isopropylthiazol-4-yl)methyl)(methyl)carbamoyl)-L-valinate	NA	Ritonavir EP impurity U	C51H69N9O7S3	1016.34
2723		Ritonavir 4-hydroxy isomer	O=C(OCC1=CN=CS1)N[C@H](C[C@H](O)[C@@H](NC([C@@H](NC(N(C)CC2=CSC(C(C)C)=N2)=O)C(C)C)=O)CC3=CC=CC=C3)CC4=CC=CC=C4	impurity	DCTI-C-1810	thiazol-5-ylmethyl((2S,4S,5S)-4-hydroxy-5-((S)-2-(3-((2-isopropylthiazol-4-yl)methyl)-3-methylureido)-3-methylbutanamido)-1,6-diphenylhexan-2-yl) carbamate	NA	4-Dehydroxy-5-hydroxy Ritonavir; Ritonavir EP Impurity N; (3S,5S,6S,9S)-5-Hydroxy-12-methyl-9-(1-methylethyl)-13-[2-(1-methylethyl)-4-thiazolyl]-8,11-dioxo-3,6-bis(phenylmethyl)-2,7,10,12-tetraazatridecanoic Acid 5-	C37H48N6O5S2	720.95
2724		Ureiodovaline isobutyl ester	CC(C)[C@H](NC(N(CC1=CSC(C(C)C)=N1)C)=O)C(OCC(C)C)=O	Impurity	DCTI-C-1794	Isobutyl (((2-isopropylthiazol-4-yl)methyl)(methyl)carbamoyl)-L-valinate	NA	Ritonavir EP Impurity M; Ritonavir Ureidovaline Isobutyl Ester (USP)	C18H31N3O3S	369.52
2725		Ritonavir 3R-Epimer	O=C(N[C@@H](CC1=CC=CC=C1)C[C@@H](O)[C@@H](NC(OCC2=CN=CS2)=O)CC3=CC=CC=C3)[C@@H](NC(N(C)CC4=CSC(C(C)C)=N4)=O)C(C)C	impurity	DCTI-C-1643	thiazol-5-ylmethyl ((2S,3R,5S)-3-hydroxy-5-((S)-2-(3-((2-isopropylthiazol-4-yl) methyl)-3-methylureido)-3-methylbutanamido)-1,6-diphenylhexan-2-yl) carbamate	1414933-81-5	Ritonavir EP Impurity O; 3R-Epimer Ritonavir (USP); Thiazol-5-ylmethyl [(1S,2R,4S)-1-benzyl-2-hydroxy-4-[[(2S)-3-methyl-2-[[methyl[[2-(1-methylethyl)thiazol-4-yl]meth yl]carbamoyl]amino]butanoyl]amino]-5-phenylpentyl]carbamate; (3S,4R,6S,9S)-4-Hydroxy-12-methyl-9-(1-methylethyl)-13-[2-(1-methylethyl)-4-thiazolyl]-8,11-dioxo-3,6-	C37H48N6O5S2	720.95
2726		Ritonavir Hydantoin-Oxazolidinone Derivative	O=C([C@@H](NC1=O)C(C)C)N1[C@@H](CC2=CC=CC=C2)C[C@H](OC(N3C(OCC4=CN=CS4)=O)=O)[C@@H]3CC5=CC=CC=C5	impurity	DCTI-C-1890	Thiazol-5-ylmethyl (4S,5S)-4-benzyl-5-[(2S)-2-[(4S)-4-(1-methylethyl)-2,5-dioxoimidazolidin-1-yl]-3-phenylpropyl]-2-oxooxazolidine-3-carboxylate	NA	Hydantoin-Oxazolidinone Ritonavir, Ritonavir EP Impurity H; (4S,5S)-Thiazol-5-ylmethyl 4-benzyl-5-{(S)-2-[(S)-4-isopropyl-2,5-dioxoimidazolidin-1-yl]-3-phenyl propyl}-2-oxooxazolidine-3-carboxylate	C30H32N4O6S	576.67
2727		Ritonavir Hydrogen Peroxide Intermediate Impurity	CC(C)(OO)C1=NC(CN(C)C(N[C@@H](C(C)C)C(O)=O)=O)=CS1	impurity	DCTI-C-1891	(((2-(2-hydroperoxypropan-2-yl)thiazol-4-yl)methyl)(methyl)carbamoyl)-L-valine	NA	Ritonavir Hydrogen Peroxide Impurity; Ritonavir Peroxy Intermediate	C14H23N3O5S	345.41

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2728	Ritonavir	Ritonavir Hydroxy Intermediate Impurity	CC(C)(O)C1=NC(CN(C)C(N[C@@H](C(C)C)C(O)=O)=O)=CS1	impurity	DCTI-C-1641	(((2-(2-hydroxypropan-2-yl)thiazol-4-yl)methyl)(methyl)carbamoyl)-L-valine	NA	Ritonavir Hydroxy Impurity; (S)-2-(3-((2-(2-hydroxypropan-2-yl)thiazol-4-yl)methyl)-3-methylureido)-3-methylbutanoic acid (Hydroxy impurity)	C14H23N3O4S	329.42
2729		Ritonavir Impurity	CN(C)C(N[C@H](C(N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O)=O)C(C)C)=O	Metabolite	DCTI-C-725	thiazol-5-ylmethyl ((2S,3S,5S)-5-((S)-2-(3,3-dimethylureido)-3-methylbutanamido)-3-hydroxy-1,6-diphenylhexan-2-yl)carbamate	NA	NA	C31H41N5O5S	595.76
2730		Ritonavir Impurity-E	O=C([C@H](C(C)C)NC(N(C)CC1=CSC(C(C)(O)C)=N1)=O)N[C@@H](CC2=CC=CC=C2)C[C@H](O)[C@H](CC3=CC=CC=C3)NC(OCC4=CN=CS4)=O	Metabolite	DCTI-C-745	thiazol-5-ylmethyl ((2S,3S,5S)-3-hydroxy-5-((S)-2-(3-((2-(2-hydroxypropan-2-yl)thiazol-4-yl)methyl)-3-methylureido)-3-methylbutanamido)-1,6-diphenylhexan-2-yl)carbamate	NA	NA	C37H48N6O6S2	736.95
2731		Ritonavir EP Impurity D	N[C@@H](C(C)C)C(N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O)=O	impurity	DCTI-C-965	Thiazol-5-ylmethyl ((2S,3S,5S)-5-((S)-2-amino-3-methylbutanamido)-3-hydroxy-1,6-diphenylhexan-2-yl) carbamate	765875-58-9	NA	C28H36N4O4S	524.68
2732		Ritonavir EP Impurity I	O=C([C@H](C(C)C)NC(N(C)CC1=CSC(CC)=N1)=O)N[C@@H](CC2=CC=CC=C2)C[C@H](O)[C@H](CC3=CC=CC=C3)NC(OCC4=CN=CS4)=O	impurity	DCTI-C-966	thiazol-5-ylmethyl ((2S,3S,5S)-5-((S)-2-(3-((2-ethylthiazol-4-yl)methyl)-3-methylureido)-3-methylbutanamido)-3-hydroxy-1,6-diphenylhexan-2-yl)carbamate	165315-26-4	Ritonavir Ethyl Analogue	C36H46N6O5S2	706.92

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2733		Ritonavir EP Impurity L	O=C(N[C@@H](C(C)C)C(N[C@@H](CC1=CC=CC=C1)C[C@H]2[C@@H](NC(O2)=O)CC3=CC=CC=C3)=O)N(CC4=CN=C(C(C)C)S4)C	impurity	DCTI-C-967	(S)-N-((S)-1-((4S,5S)-4-benzyl-2-oxooxazolidin-5-yl)-3-phenylpropan-2-yl)-2-(3-((2-isopropylthiazol-5-yl)methyl)-3-methylureido)-3-methylbutanamide	256328-82-2	NA	C33H43N5O4S	605.8
2734		Ritonavir Boc-aminoalcohol	O=C(N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O)OC(C)(C)C	impurity	DCTI-C-968	tert-butyl (thiazol-5-ylmethyl) ((2S,3S,5S)-3-hydroxy-1,6-diphenylhexane-2,5-diyl)dicarbamate	162849-95-8	NA	C28H35N3O5S	525.66
2735		Ritonavir EP Impurity A	CC(C)C1=NC(CN(C)C(N[C@@H](C(C)C)C(O)=O)=O)=CS1	impurity	DCTI-C-969	(((2-isopropylthiazol-4-yl)methyl)(methyl)carbamoyl)-L-valine	154212-61-0	Ureidovaline Ritonavir	C14H23N3O3S	313.42
2736		Ritonavir Impurity K	O=C(OCC(C)C)N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O	impurity	DCTI-C-970	isobutyl (thiazol-5-ylmethyl) ((2S,3S,5S)-3-hydroxy-1,6-diphenylhexane-2,5-diyl)dicarbamate	1010809-39-8	Ritonavir Isobutoxycarbonyl Aminoalcohol	C28H35N3O5S	525.7
2737		Des-isopropylthiazolyl Ritonavir	O=C(N[C@@H](C(C)C)C(N[C@@H](CC1=CC=CC=C1)C[C@H](O)[C@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O)=O)NC	Metabolite	DCTI-C-1061	Thiazol-5-ylmethyl((2S,3S,5S)-3-hydroxy-5-((S)-3-methyl-2-(3-methylureido)butanamido)-1,6-diphenylhexan-2-yl)carbamate	176655-57-5	Ritonavir Impurity 18	C30H39N5O5S	581.73
2738		Ritonavir Impurity G	CC(OO)(C)C1=NC(CN(C)C(N[C@@H](C(C)C)C(N[C@@H](CC2=CC=CC=C2)C[C@H](O)[C@H](CC3=CC=CC=C3)NC(OCC4=CN=CS4)=O)=O)=O)=CS1	impurity	DCTI-C-1062	Thiazol-5-ylmethyl ((2S,3S,5S)-5-((S)-2-(3-((2-(2-hydroperoxypropan-2-yl)thiazol-4-yl)methyl)-3-methylureido)-3-methylbutanamido)-3-hydroxy-1,6-diphenylhexan-2-yl)carbamate	2034136-66-6	Ritonavir Hydroperoxide Impurity	C37H48N6O7S2	752.95

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2739		Ritonavir EP Impurity S	O=C(N[C@H](CC1=CC=CC=C1)C[C@@H](O)[C@@H](CC2=CC=CC=C2)NC(OCC3=CN=CS3)=O)N[C@@H](C(C)C)C(N[C@@H](CC4=CC=CC=C4)C[C@H](O)[C@H](CC5=CC=CC=C5)NC(OCC6=CN=CS6)=O)=O	impurity	DCTI-C-1170	thiazol-5-ylmethyl ((5R,6R,8R,12S,15S,17S,18S)-5,8,15-tribenzyl-6,17-dihydroxy-12-isopropyl-3,10,13-trioxo-19-phenyl-1-(thiazol-5-yl)-2-oxa-4,9,11,14-tetraazanonadecan-18-yl)carbamate	2084828-53-3	Ritonavir Valine Urea Anologue	C52H61N7O8S2	976.22
2740		Ritonavir MTV-III Isoleucine Analog Impurity	CC(C)C1=NC(CN(C)C(N[C@H](C(O)=O)[C@@H](C)CC)=O)=CS1	Impurity	DCTI-C-2677	(((2-isopropylthiazol-4-yl)methyl)(methyl)carbamoyl)-L-isoleucine	1260720-78-2	NA	C15H25N3O3S	327.44
2741		Ritonavir MTV-III Leucine Analog Impurity	CC(C)C1=NC(CN(C)C(N[C@H](C(O)=O)CC(C)C)=O)=CS1	Impurity	DCTI-C-2678	(((2-isopropylthiazol-4-yl)methyl)(methyl)carbamoyl)-L-leucine	NA	NA	C15H25N3O3S	327.44
2742		2-Chloro NCT Impurity of Ritonavir	ClC1=NC=C(S1)COC(OC2=CC=C([N+]([O-])=O)C=C2)=O	Impurity	DCTI-C-2545	(2-chlorothiazol-5-yl)methyl (4-nitrophenyl) carbonate	1072830-36-4	NA	C11H7ClN2O5S	314.7
2743		2,5 thiazolylmethyl dicarbamate	O[C@H]([C@H](CC1=CC=CC=C1)NC(OCC2=CN=CS2)=O)C[C@H](CC3=CC=CC=C3)NC(OCC4=CN=CS4)=O	impurity	DCTI-C-1806	bis(thiazol-5-ylmethyl) ((2S,3S,5S)-3-hydroxy-1,6-diphenylhexane-2,5-diyl)dicarbamate	144142-33-6	NA	$C_{28}H_{30}N_4O_5S_2$	566.69

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2744		Ritonavir Aminoalcohol Urea	O=C(N[C@H](C[C@@H]([C@H](CC1=CC=CC=C1)NC(OCC2=CN=CS2)=O)O)CC3=CC=CC=C3)N[C@H](C[C@@H]([C@H](CC4=CC=CC=C4)NC(OCC5=CN=CS5)=O)O)CC6=CC=CC=C6	impurity	DCTI-C-3274	bis(thiazol-5-ylmethyl) ((2S,2'S,3S,3'S,5S,5'S)-(carbonylbis(azanediyl))bis(3-hydroxy-1,6-diphenylhexane-5,2-diyl))dicarbamate	2804644-96-8	Ritonavir EP Impurity P	C47H52N6O7S2	877.09
2745	Risperidone	Risperidone N-oxide	CC1=C(CC[N+]2([O-])CCC(C3=NOC4=CC(F)=CC=C34)CC2)C(N5C(CCCC5)=N1)=O	impurity	DCTI-C-1430	4-(6-fluorobenzo[d]isoxazol-3-yl)-1-(2-(2-methyl-4-oxo-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-3-yl)ethyl)piperidine 1-oxide	NA	NA	C23H27FN4O3	426.49
2746		7-Fluoro Risperidone	CC1=C(CCN2CCC(C3=NOC4=C(F)C=CC=C34)CC2)C(N5C(CCCC5)=N1)=O	Impurity	DCTI-C-895	3-(2-(4-(7-fluorobenzo[d]isoxazol-3-yl)piperidin-1-yl)ethyl)-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one	NA	NA	C23H27FN4O2	410.49
2747		4-Fluoro Risperidone	CC1=C(CCN2CCC(C3=NOC4=CC=CC(F)=C34)CC2)C(N5C(CCCC5)=N1)=O	Impurity	DCTI-C-896	3-(2-(4-(4-fluorobenzo[d]isoxazol-3-yl)piperidin-1-yl)ethyl)-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one	NA	NA	C23H27FN4O2	410.49
2748		5-Fluoro Risperidone	CC1=C(CCN2CCC(C3=NOC4=CC=C(F)C=C34)CC2)C(N5C(CCCC5)=N1)=O	Impurity	DCTI-C-2762	3-(2-(4-(5-fluorobenzo[d]isoxazol-3-yl)piperidin-1-yl)ethyl)-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one	1199589-74-6	Risperidone EP Impurity D	$C_{23}H_{27}FN_4O_2$	410.49
2749		Des Fluoro Risperidone	CC1=C(CCN2CCC(C3=NOC4=CC=CC=C34)CC2)C(N5C(CCCC5)=N1)=O	Impurity	DCTI-C-2763	3-(2-(4-(benzo[d]isoxazol-3-yl)piperidin-1-yl)ethyl)-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one	106266-09-5	Risperidone EP Impurity K	$C_{23}H_{28}N_4O_2$	392.5

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2750		6-fluoro-3-(1-nitrosopiperidin-4-yl)benzo[d]isoxazole	FC1=CC2=C(C=C1)C(C3CCN(N=O)CC3)=NO2	NDSRI	DCTI-C-3133	6-fluoro-3-(1-nitrosopiperidin-4-yl)benzo[d]isoxazole	NA	NA	C12H12FN3O2	249.25
2751		7-fluoro-3-(piperidin-4-yl)benzo [d]isoxazole	FC1=C(C2=CC=C1)ON=C2C3CCNCC3.Cl	impurity	DCTI-C-3381	7-fluoro-3-(piperidin-4-yl)benzo[d]isoxazole hydrochloride	NA	NA	C12H14ClFN2O	256.71
2752		Rivaroxaban EP impurity H	O=C1COCCN1C2=CC=C(N3C[C@H](CNC(C4=CC(Cl)=C(Cl)S4)=O)OC3=O)C=C2	Impurity	DCTI-C-682	(S)-4,5-dichloro-N-((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)thiophene-2-carboxamide	1770812-37-7	Rivaroxaban Impurity D	C19H17Cl2N3O5S	470.32
2753		Rivaroxaban Impurity 23	O=C(OC)NCC1CN(C2=CC=C(N3C(COCC3)=O)C=C2)C(O1)=O	impurity	DCTI-C-2165	Methyl ((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)carbamate	1838139-08-4	Rivaroxaban methyl ester impurity	C16H19N3O6	349.34
2754		Rivaroxaban methyl oxalate impurity	O=C(O[C@@H](CNC(C(OC)=O)=O)C1)N1C2=CC=C(N3CCOCC3=O)C=C2	impurity	DCTI-C-2166	methyl (S)-2-oxo-2-(((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)amino)acetate	NA	NA	C17H19N3O7	377.12
2755		Rivaroxaban Impurity E	O=C1N(C2=CC=C(NC[C@@H](O)CCl)C=C2)CCOC1	impurity	DCTI-C-2167	R)-4-(4-((3-chloro-2-hydroxypropyl)amino)phenyl)morpholin-3-one	1252018-10-2	NA	C13H17ClN2O3	284.09

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2756		Rivaroxaban Impurity 53	O=C1N(C2=CC=C(N(CC(O)CCl)CC(O)CCl)C=C2)CCOC1	impurity	DCTI-C-2168	4-(4-(bis(3-chloro-2-hydroxypropyl)amino)phenyl)morpholin-3-one	2206360-84-9	NA	C16H22Cl2N2O4	377.26
2757		Rivaroxaban EP impurity J	O=C1O[C@@H](CNC(C2CCC(Cl)S2)=O)CN1c3ccc(N(C(C4CCC(Cl)S4)=O)CCOCC(NC[C@H](OC5=O)CN5c6ccc(N7CCOCC7=O)cc6)=O)cc3	Impurity	DCTI-C-683	5-chloro-N-(4-((S)-5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)-N-(2-(2-oxo-2-((((S)-2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)amino)ethoxy)ethyl)thiophene-2-carboxamide	1632463-24-1	Rivaroxaban Impurity E; Rivaroxaban Pseudodimer; Rivaroxaban Dimer Impurity	C38H36Cl2N6O10S2	871.76
2758		Rivaroxaban EP impurity I	ClC1=CC=C(C(NC[C@H]2CN(C3=CC=C(N(C(C4=CC=C(Cl)S4)=O)CCOCC(O)=O)C=C3)C(O2)=O)=O)S1	Impurity	DCTI-C-684	(S)-2-(2-(5-chloro-N-(4-(5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)thiophene-2-carboxamido)ethoxy)acetic acid	1151893-81-0	Rivaroxaban Impurity 32; Rivaroxaban Amine Impurity	C24H21Cl2N3O7S2	598.47
2759		Rivaroxaban impurity B	ClC1=CC=C(C(NC[C@H]2CN(C3=CC=C(NCCOCC(O)=O)C=C3)C(O2)=O)=O)S1.Cl	Metabolite	DCTI-C-685	(S)-2-(2-((4-(5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)amino)ethoxy)acetic acid hydrochloride	931117-61-2	Rivaroxaban Impurity-14 hydrochloride; Rivaroxaban Impurity A hydrochloride	C19H21Cl2N3O6S (HCl Salt) C19H20ClN3O6S (Free base)	490.35 (HCl Salt) 453.89 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2760	Rivaroxaban	RVX III Impurity 5	NC[C@@H](CN(C(NC)=O)C1=CC=C(C=C1)N2C(COCC2)=O)O.Cl	Impurity	DCTI-C-723	(S)-1-(3-amino-2-hydroxypropyl)-3-methyl-1-(4-(3-oxomorpholino)phenyl)urea hydrochloride	NA	NA	C15H23ClN4O4 (HCl Salt) C15H22N4O4 (Free base)	358.82 (HCl Salt) 322.37 (Free base)
2761		Rivaroxaban EP Impurity D	O=C(COCC1)N1C2=CC=C(N3C[C@H](CNC(NC[C@H](OC4=O)CN4C5=CC=C(N6C(COCC6)=O)C=C5)=O)OC3=O)C=C2	Impurity	DCTI-C-795	1,3-bis(((S)-2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)urea	NA	Rivaroxaban Impurity C; Rivaroxaban Impurity 5	C29H32N6O9	608.61
2762		Rivaroxaban Ring Opening Impurity	O=C(NC)COCCN(C(C1=CC=C(Cl)S1)=O)C2=CC=C(N3C[C@H](CNC(C4=CC=C(Cl)S4)=O)OC3=O)C=C2	impurity	DCTI-C-1042	(S)-5-chloro-N-(4-(5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)-N-(2-(2-(methylamino)-2-oxoethoxy)ethyl)thiophene-2-carboxamide	1807455-76-0	Rivaroxaban Impurity 10, Rivaroxaban Impurity H, Rivaroxaban Open-Ring N-Methyl Impurity	C25H24Cl2N4O6S2	611.51
2763		Rivaroxaban Metabolite 5	OCCN(C1=CC=C(N2C[C@H](CNC(C3=CC=C(Cl)S3)=O)OC2=O)C=C1)C(CO)=O	Metabolite	DCTI-C-2700	S)-5-chloro-N-((3-(4-(2-hydroxy-N-(2-hydroxy ethyl)acetamido)phenyl)-2-oxoxazolidin-5-yl)methyl)thiophene-2-carboxamide	1160170-00-2	Rivaroxaban Diol	C19H20ClN3O6S	453.89
2764		Rivaroxaban EP impurity F	ClC1=CC=C(C(O)=O)S1	Metabolite	DCTI-C-2764	5-chlorothiophene-2-carboxylic acid	24065-33-6	Rivaroxaban Impurity F	$C_5H_3ClO_2S$	162.59

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2765		Rivaroxaban EP impurity G	O=C1N(C[C@@H]2OC(N(C3=CC=C(N4CCOCC4=O)C=C3)C2)=O)C(C5=CC=CC=C51)=O	impurity	DCTI-C-2765	(S)-2-((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)isoindoline-1,3-dione	446292-08-6	Rivaroxaban Impurity G	$C_{22}H_{19}N_3O_6$	421.41
2766		Rivaroxaban impurity A (EP)	ClC1=CC=C(S1)C(NC[C@H](CN2C3=CC=C(C=C3)N4CCOCC4=O)OC2=O)=O	impurity	DCTI-C-2766	(R)-5-chloro-N-((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)thiophene-2-carboxamide	865479-71-6	5-R-Rivaroxaban, Rivaroxaban EP impurity A, Rivaroxaban Enantiomer (R-Isomer)	$C_{19}H_{18}ClN_3O_5S$	435.88
2767		5-chloro-N-methylthiophene-2-carboxamide	CNC(C1=CC=C(Cl)S1)=O	IMPURITY	DCTI-C-2747	5-chloro-N-methylthiophene-2-carboxamide	97799-98-9	Rivaroxaban Impurity 93, Rivaroxaban methyl amine impurity	C6H6ClNOS	175.63
2768		RVB-III (AOM impurity)	O=C1N(C2=CC=C(N3C(O[C@@H](CN)C3)=O)C=C2)CCOC1.Cl	Metabolite	DCTI-C-2751	(S)-4-(4-(5-(aminomethyl)-2-oxooxazolidin-3-yl)phenyl)morpholin-3-one hydrochloride	898543-06-1	Des(5-Chloro-2-carboxythienyl) Rivaroxaban Hydrochloride; Rivaroxaban Aminomethyl Hydrochloride Impurity; Rivaroxaban Impurity 11 HCl	C14H17N3O4 (Free base)C14H18ClN3O4 (HCl Salt)	291.31 (Free base)327.77 (HCl Salt)
2769		N-Nitroso Rivaroxaban Open-Ring Acid Impurity (Mixture of Syn & Anti Isomers)	ClC1=CC=C(C(NC[C@@H]2OC(N(C3=CC=C(N(N=O)CCOCC(O)=O)C=C3)C2)=O)=O)S1	NDSRI	DCTI-C-2471	(S)-2-(2-((4-(5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)(nitroso)amino)ethoxy)acetic acid	NA	Rivaroxaban Nitroso Open-Ring Acid Impurity	C19H19ClN4O7S	482.89
2770		Rivaroxaban Nitroso Impurity 2 (Mixture of Syn & Anti Isomers)	O=C(C1=CC=C(Cl)S1)NC[C@H](O)CN(N=O)C2=CC=C(N3C(COCC3)=O)C=C2	NDSRI	DCTI-C-2472	(S)-5-chloro-N-(2-hydroxy-3-(nitroso(4-(3-oxomorpholino)phenyl)amino)propyl)thiophene-2-carboxamide	NA	N-Nitroso Descarbonyl Rivaroxaban Impurity	C18H19ClN4O5S	438.88
2771		4-(2-aminophenyl)morpholin-3-one	O=C1N(C2=CC=CC=C2N)CCOC1	Impurity	DCTI-C-2850	4-(2-aminophenyl)morpholin-3-one	1082588-73-5	NA	C10H12N2O2	192.22

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2772		4-(3-aminophenyl)morpholin-3-one	O=C1N(C2=CC=CC(N)=C2)CCOC1	Impurity	DCTI-C-2849	4-(3-aminophenyl)morpholin-3-one	1082495-22-4	NA	C10H12N2O2	192.22
2773		Rivaroxaban EP impurity E	O=C(NC[C@@H](CN1C(C=C2)=CC=C2N3CCOCC3=O)OC1=O)C4=CC=CS4	impurity	DCTI-C-1917	(S)-N-((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)thiophene-2-carboxamide	1415566-28-7	Deschloro-Rivaroxaban, Rivaroxaban Deschloro impurity; Rivaroxaban impurity E	$C_{19}H_{19}N_3O_5S$	401.44
2774		Rivaroxaban EP impurity B	CC(NC[C@@H](CN1C(C=C2)=CC=C2N3CCOCC3=O)OC1=O)=O	impurity	DCTI-C-1916	(S)-N-((2-oxo-3-(4-(3-oxomorpholino)phenyl)oxazolidin-5-yl)methyl)acetamide	1429334-00-8	Rivaroxaban acetamide impurity, Rivaroxaban impurity B	$C_{16}H_{19}N_3O_5$	333.34
2775		(S)-2-(2,3-dihydroxypropyl)isoindoline-1,3-dione	O=C1N(C[C@H](O)CO)C(C2=C1C=CC=C2)=O	IMPURITY	DCTI-C-1654	(S)-2-(2,3-dihydroxypropyl)isoindoline-1,3-dione	NA	NA	C11H11NO4	221.21
2776		(S)-2-(3-chloro-2-hydroxypropyl)isoindoline-l,3-dione	O=C(C1=CC=C(Cl)S1)NCC(O)CNC2=CC=C(N3C(COCC3)=O)C=C2	IMPURITY	DCTI-C-1653	(S)-2-(3-chloro-2-hydroxypropyl)isoindoline-l,3-dione	148857-42-5	NA	C11H10ClNO3	239.65
2777		Oxazolidine ring open Impurity	O=C(NCC(CNC1=CC=C(C=C1)N2C(COCC2)=O)O)C3=CC=C(S3)Cl	Impurity	DCTI-C-1580	5-chloro-N-(2-hydroxy-3-((4-(3-oxomorpholino)phenyl)amino)propyl)thiophene-2-carboxamide	482305-98-6	Rivaroxaban amide impurity	C18H20ClN3O4S	409.88
2778	**RIZATRIPTAN**	N-NITROSO DESMETHYL RIZATRIPTAN(MiXTURE OF ISOMERS)	CN(N=O)CCC1=CNC2=CC=C(C=C21)CN3C=NC=N3	NDSRI	DCTI-C-3787	N-(2-(5-((1H-1,2,4-triazol-1-yl)methyl)-1H-indol-3-yl)ethyl)-N-methylnitrous amide	NA	NA	C14H16N6O	284.32
2779	**Ripretinib**	Active metabolite of Ripretinib	O=C(NC1=CC(C2=CC3=C(N(CC)C2=O)C=C(N)N=C3)=C(Br)C=C1F)NC4=CC=CC=C4	Metabolite	DCTI-C-2859	1-(5-(7-amino-1-ethyl-2-oxo-1,2-dihydro-1,6-naphthyridin-3-yl)-4-bromo-2-fluorophenyl)-3-phenylurea	1442473-09-7	Desmethyl Ripretinib	C23H19BrFN5O2	496.34

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2780	**Roflumilast**	5-((3,5-dichloropyridin-4-yl)carbamoyl)-2-(difluoromethoxy)phenyl 3-(cyclopropylmethoxy)-4-(difluoromethoxy)benzoate	O=C(NC1=C(Cl)C=NC=C1Cl)C2=CC=C(OC(F)F)C(OC(C3=CC=C(OC(F)F)C(OCC4CC4)=C3)=O)=C2	Impurity	DCTI-C-3738	5-((3,5-dichloropyridin-4-yl)carbamoyl)-2-(difluoromethoxy)phenyl 3-(cyclopropylmethoxy)-4-(difluoromethoxy)benzoate	NA	Benzoate Impurity (Roflumilast)	C25H18Cl2F4N2O6	589.32
2781	**Ropivacaine**	Ropivacaine (Racemic mixture)	CCCN1CCCCC1C(NC2=C(C=CC=C2C)C)=O	impurity	DCTI-C-1150	N-(2,6-dimethylphenyl)-1-propylpiperidine-2-carboxamide	98626-61-0	(±)-Ropivacaine; LEA 103/104	C17H26N2O	274.41
2782	**Ropinirole**	Ropinirole Isohexyl Analog Hydrobromide	O=C(N1)CC2=C1C=CC(CCNCC(C)CCC)=C2.Br	Impurity	DCTI-C-3127	5-(2-((2-methylpentyl)amino)ethyl)indolin-2-one hydrobromide	NA	Ropinirole Isohexyl Analog	C16H25BrN2O (HBr salt)C16H24N2O(free base)	341.29(HBr salt)260.38 (free base)
2783		Ropinirole Isohexyl Analog Hydrochloride	O=C1NC2=C(C=C(CCNCC(C)CCC)C=C2)C1.[H]Cl	Impurity	DCTI-C-3126	5-(2-((2-methylpentyl)amino)ethyl)indolin-2-one hydrochloride	221264-33-1	Ropinirole EP impurity B; Ropinirole Isohexyl Analog,	C16H25ClN2O(HCl salt)C16H24N2O(free base)	260.38 (free base) 296.84 (HCl salt)
2784	**Rosiglitazone**	Rosiglitazone Propanamide	O=C(CCC1=CC=C(C=C1)OCCN(C)C2=NC=CC=C2)N	Impurity	DCTI-C-3568	3-(4-(2-(methyl(pyridin-2-yl)amino)ethoxy)phenyl) propanamide	1797979-55-5	NA	C17H21N3O2	299.37
2785		Ethyl Rotigotine	OC1=C(CC[C@H](N(CC)CCC2=CC=CS2)C3)C3=CC=C1.Cl	impurity	DCTI-C-1851	(S)-6-(ethyl(2-(thiophen-2-yl)ethyl)amino)-5,6,7,8-tetrahydronaphthalen-1-ol hydrochloride	NA	NA	C18H23NOS C18H24ClNOS (Salt)	301.45 337.91 (Salt)
2786		Rotigotine racemic mixture	OC1=C(CCC(N(CCC2=CC=CS2)CCC)C3)C3=CC=C1	impurity	DCTI-C-1414	6-(propyl(2-(thiophen-2-yl)ethyl)amino)-5,6,7,8-tetrahydronaphthalen-1-ol	92206-54-7	NA	C19H25NOS	315.48

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2787	Rotigotine	Rotigotine N-Oxide Hydrochloride	OC1=C2CC[C@H](N(CCC3=CC=CS3)(CCC)=O)CC2=CC=C1.Cl	Impurity	DCTI-C-2652	(2S)-5-hydroxy-N-propyl-N-(2-(thiophen-2-yl)ethyl)-1,2,3,4-tetrahydronaphthalen-2-amine oxide hydrochloride	2708278-88-8	NA	C19H25NO2S (Free base) ; C19H26ClNO2S (Salt)	331.47 (Free base) ; 367.93 (Salt)
2788		Acetyl Rotigotine	CCCN([C@@H]1CC2=CC=CC(OC(C)=O)=C2CC1)CCC3=CC=CS3	Impurity	DCTI-C-3172	(S)-6-(propyl(2-(thiophen-2-yl)ethyl)amino)-5,6,7,8-tetrahydronaphthalen-1-yl acetate	835654-68-7	NA	C21H27NO2S	357.51
2789		Rotigotine O-Thienyl ethyl	CCCN([C@@H]1CC2=CC=CC(OCCC3=CC=CS3)=C2CC1)CCC4=CC=CS4.Cl	Impurity	DCTI-C-3173	(S)-N-propyl-5-(2-(thiophen-2-yl)ethoxy)-N-(2-(thiophen-2-yl)ethyl)-1,2,3,4-tetrahydronaphthalen-2-amine hydrochloride	NA	NA	C25H31NOS2 (Free Base); C25H32ClNOS2 (Salt)	425.65 (Free Base); 462.11 (Salt)
2790		Rotigotine O-Tosylate	CCCN([C@@H]1CC2=CC=CC(OS(C3=CC=C(C)C=C3)(=O)=O)=C2CC1)CCC4=CC=CS4.Cl	Impurity	DCTI-C-3174	(S)-6-(propyl(2-(thiophen-2-yl)ethyl)amino)-5,6,7,8-tetrahydronaphthalen-1-yl 4-methylbenzenesulfonate hydrochloride	1966941-11-6	NA	C26H31NO3S2 (Free Base); C26H32ClNO3S2 (Salt)	469.66 (Free Base); 506.12 (Salt)
2791		Rotigotine O-Thienyl ethyl	CCCN(CCC1=CC=CS1)[C@@H]2CC3=C(C(OCCC4=CC=CS4)=CC=C3)CC2	Impurity	DCTI-C-3370	(S)-N-propyl-5-(2-(thiophen-2-yl)ethoxy)-N-(2-(thiophen-2-yl)ethyl)-1,2,3,4-tetrahydronaphthalen-2-amine	NA	NA	C25H31NOS2	425.65
2792		Acetyl Rotigotine	CCCN([C@@H]1CC2=CC=CC(OC(C)=O)=C2CC1)CCC3=CC=CS3	Impurity	DCTI-C-3371	(S)-6-(propyl(2-(thiophen-2-yl)ethyl)amino)-5,6,7,8-tetrahydronaphthalen-1-yl acetate	835654-68-7	O-Acetylrotigotine	C21H27NO2S	357.51
2793		Rotigotine O-Tosylate	CCCN([C@@H]1CC2=CC=CC(OS(C3=CC=C(C)C=C3)(=O)=O)=C2CC1)CCC4=CC=CS4	Impurity	DCTI-C-3372	(S)-6-(propyl(2-(thiophen-2-yl)ethyl)amino)-5,6,7,8-tetrahydronaphthalen-1-yl 4-methylbenzenesulfonate	1966941-11-6	NA	C26H31NO3S2	469.66
2794		Desthienylethyl Rotigotine	OC1=CC=CC2=C1CC[C@H](NCCC)C2.Br	Impurity	DCTI-C-3618	(S)-6-(propylamino)-5,6,7,8-tetrahydronaphthalen-1-ol hydrobromide	165950-84-5	Desthienylethyl Rotigotine hydrobromide	C13H19NO(free base)C13H20BrNO (HBr salt)	205.30(free base)286.21 (HBr salt)

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2795	**Roxithromycin**	O-(2-methoxy ethoxy methyl) hydroxylamin	NOCOCCOC	impurity	DCTI-C-1163	O-((2-methoxyethoxy)methyl)hydroxylamine	113952-50-4	Roxithromycin Impurity	C4H11NO3	121.14
2796		Ruxolitinib Metabolite M27 Minor isomer	N#CCC(C1CCC(O)C1)N2N=CC(C3=C4C=CNC4=NC=N3)=C2	Metabolite	DCTI-C-2169	3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-(3-hydroxycyclopentyl)propanenitrile.	1092973-94-8	NA	C17H18N6O	322.37
2797		Ruxolitinib M18 Metabolite	N#CCC(C1CCCC1O)N2N=CC(C3=C4C=CNC4=NC=N3)=C2	Metabolite	DCTI-C-1777	3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-(2-hydroxy cyclopentyl) propanenitrile	NA	NA	C17H18N6O	322.37
2798		Ruxolitinib RXP-03-Urea	N#CC[C@H](C1CCCC1)N2N=CC(C3=C4C(N(C(N)=O)C=C4)=NC=N3)=C2	Impurity	DCTI-C-3041	(R)-4-(1-(2-cyano-1-cyclopentylethyl)-1H-pyrazol-4-yl)-7H-pyrrolo[2,3-d]pyrimidine-7-carboxamide	NA	NA	C18H19N7O	349.4
2799		Ruxolitinib Acrylopyrimidine impurity	C[Si](C)(CCOCN1C2=NC=NC(C(C=N3)=CN3C(C#N)C4CCCC4)=C2C=C1)C	Impurity	DCTI-C-2390	3-cyclopentyl-3-(4-(7-((2-(trimethylsilyl)ethoxy)methyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)propanenitrile	941685-39-8	NA	C23H32N6OSi	436.64

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2800	Ruxolitinib	Ruxolitinib impurity-A	[H][C@](CC#N)(C1CCCC1)N(N=C2)C=C2C3=NC=NC4=C3C=CN4	Impurity	DCTI-C-2391	(S)-3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-cyclopentylpropanenitrile	941685-37-6	Ruxolitinib Enantiomer; S-Ruxolitinib	C17H18N6	306.37
2801		Ruxolitinib Impurity-B	N#CCC(N1C=C(C2=NC=NC3=C2C=CN3CO)C=N1)C4CCCC4	Impurity	DCTI-C-2392	3-cyclopentyl-3-(4-(7-(hydroxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)propanenitrile	NA	NA	C18H20N6O	336.4
2802		Ruxolitinib impurity-D	NC(CC(C1CCCC1)N(N=C2)C=C2C3=NC=NC4=C3C=CN4)=O	Impurity	DCTI-C-2393	3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-cyclopentylpropanamide	1911644-32-0	Ruxolitinib Impurity 2	C17H20N6O	324.39
2803		Ruxolitinib impurity-F	OC(CC(C1CCCC1)N(N=C2)C=C2C3=NC=NC4=C3C=CN4)=O	Impurity	DCTI-C-2394	3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-cyclopentylpropanoic acid	NA	Ruxolitinib Impurity 8	C17H19N5O2	325.37
2804		Ruxolitinib impurity-H	COC1=CC=C(C(O[C@H](C(O)=O)[C@@H](C(O)=O)OC(C2=CC=C(OC)C=C2)=O)=O)C=C1	Impurity	DCTI-C-2395	(2S,3S)-2,3-bis((4-methoxybenzoyl)oxy)succinic acid	191605-10-4	NA	C20H18O10	418.35

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2805		Ruxolitinib SEM pyrimidine impurity/RXPI	C[Si](C)(C)CCOCN1C2=NC=NC(C3=CNN=C3)=C2C=C1	Impurity	DCTI-C-2397	4-(1H-pyrazol-4-yl)-7-((2-(trimethylsilyl)ethoxy)methyl)-7H-pyrrolo[2,3-d]pyrimidine	941685-27-4	Ruxolitinib Impurity 3	C15H21N5OSi	315.45
2806		Ruxolitinib Triphenyl phosphine oxide	O=P(C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3	Impurity	DCTI-C-2398	Triphenylphosphine oxide	791-28-6	NA	C18H15OP	278.29
2807		Ruxolitinib impurity-C	C1(C2=C3C(NC=C3)=NC=N2)=CNN=C1	Impurity		4-(1H-pyrazol-4-yl)-7H-pyrrolo[2,3-d]pyrimidine	NA	NA	C9H7N5	185.19
2808		Ruxolitinib Impurity E	N#CCC(N1N=CC(C2=C3C(CO)=CNC3=NC=N2)=C1)C4CCCC4	Impurity	DCTI-C-3602	3-cyclopentyl-3-(4-(5-(hydroxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)propanenitrile	NA	NA	C18H20N6O	336.4
2809		(2R,4S)-Sacubitril	O=C(O)CCC(N[C@H](C[C@H](C)C(OCC)=O)CC1=CC=C(C2=CC=CC=C2)C=C1)=O	Impurity	DCTI-C-033	4-(((2R,4S)-1-([1,1'-biphenyl]-4-yl)-5-ethoxy-4-methyl-5-oxopentan-2-yl)amino)-4-oxobutanoic acid	761373-05-1	NA	C24H29NO5	411.5
2810		(2R,4R)-Sacubitril	O=C(O)CCC(N[C@H](C[C@@H](C)C(OCC)=O)CC1=CC=C(C2=CC=CC=C2)C=C1)=O	Impurity	DCTI-C-034	4-(((2R,4R)-1-([1,1'-biphenyl]-4-yl)-5-ethoxy-4-methyl-5-oxopentan-2-yl)amino)-4-oxobutanoic acid	766480-48-2	AHU 377	C24H29NO5	411.5

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2811		(2S,4S)-Sacubitril	O=C(O)CCC(N[C@@H](C[C@H](C)C(OCC)=O)CC1=CC=C(C2=CC=CC=C2)C=C1)=O	Impurity	DCTI-C-035	4-(((2S,4S)-1-([1,1'-biphenyl]-4-yl)-5-ethoxy-4-methyl-5-oxopentan-2-yl)amino)-4-oxobutanoic acid	149709-63-7	NA	C24H29NO5	411.5
2812		3-Methyl Pyrrolidione (for Sacubitril)	O=C1C(C)CC(CC2=CC=C(C3=CC=CC=C3)C=C2)N1	Impurity	DCTI-C-648	5-([1,1'-biphenyl]-4-ylmethyl)-3-methylpyrrolidin-2-one	1038925-22-2	Sacubitril Impurity	C18H19NO	265.36
2813		Sacubitril amino acid impurity	NC(CC1=CC=C(C2=CC=CC=C2)C=C1)CC(C)C(O)=O.Cl	Impurity	DCTI-C-649	5-([1,1'-biphenyl]-4-yl)-4-amino-2-methylpentanoic acid hydrochloride	NA	NA	C18H22ClNO2 (HCl Salt) C18H21NO2 (Free base)	319.83 (HCl Salt) 283.37 (Free base)
2814		Sacubitril Lactum Impurity	CC1CC(CC(C=C2)=CC=C2C3=CC=CC=C3)N(C(CC(O)=O)=O)C1=O	Impurity	DCTI-C-2972	4-(5-([1,1'-biphenyl]-4-ylmethyl)-3-methyl-2-oxopyrrolidin-1-yl)-4-oxobutanoic acid	NA	Sacubitril Impurity N	C22H23NO4	365.43
2815		Succinamide impurity-(Sacubitril-Valsartan)	O=C(N1[C@@H](C[C@@H](C)C(OCC)=O)CC2=CC=C(C3=CC=CC=C3)C=C2)CCC1=O	Impurity	DCTI-C-2979	ethyl (2R,4S)-5-([1,1'-biphenyl]-4-yl)-4-(2,5-dioxopyrrolidin-1-yl)-2-methylpentanoate	1038924-97-8	Sacubitril Impurity 2; 2,5-Dioxopyrrolidine Sacubitril	C24H27NO4	393.48
2816		N-[(1R)-2-[1,1'-Biphenyl]-4-yl-1-(hydroxymethyl)ethyl]carbamic acid 1,1-dimethylethyl ester	O=C(OC(C)(C)C)N[C@@H](CO)CC1=CC=C(C2=CC=CC=C2)C=C1	Impurity	DCTI-C-3006	tert-butyl (R)-(1-([1,1'-biphenyl]-4-yl)-3-hydroxypropan-2-yl)carbamate	1426129-50-1	LCZ696 InteMediate; Sacubitril impurity 18; Sacubitril AHU-66.	C20H25NO3	327.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2817	**Sacubitril**	tert-butyl (R)-(1-([1,1'-biphenyl]-4-yl)-3-bromopropan-2-yl)carbamate	O=C(OC(C)(C)C)N[C@@H](CBr)CC1=CC=C(C2=CC=CC=C2)C=C1	Impurity	DCTI-C-3037	tert-butyl (R)-(1-([1,1'-biphenyl]-4-yl)-3-bromopropan-2-yl)carbamate	1835193-08-2	NA	C20H24BrNO2	390.32
2818		Sacubitril methyl ester impurity	C[C@H](C[C@@H](CC1=CC=C(C=C1)C2=CC=CC=C2)NC(CCC(O)=O)=O)C(OC)=O	Impurity	DCTI-C-2400	4-(((2S,4R)-1-([1,1'-biphenyl]-4-yl)-5-methoxy-4-methyl-5-oxopentan-2-yl)amino)-4-oxobutanoic acid	2408053-56-3	NA	C23H27NO5	397.47
2819		Sacubitril Maleic Impurity	O=C(O)/C=C\C(N[C@@H](C[C@@H](C)C(OCC)=O)CC1=CC=C(C2=CC=CC=C2)C=C1)=O	Impurity	DCTI-C-3141	(Z)-4-(((2S,4R)-1-([1,1'-biphenyl]-4-yl)-5-ethoxy-4-methyl-5-oxopentan-2-yl)amino)-4-oxobut-2-enoic acid	2751722-77-5	(Z)2S,4R-Sacubitril.	C24H27NO5	409.48
2820		Sacubitril (3R,5S)-Pyrrolidinone Impurity	O=C1N[C@H](CC2=CC=C(C3=CC=CC=C3)C=C2)C[C@H]1C	IMPURITY	DCTI-C-3514	(3R,5S)-5-([1,1'-biphenyl]-4-ylmethyl)-3-methylpyrrolidin-2-one	1038924-70-7	NA	C18H19NO	265.36
2821		Sacubitril Impurity 1	N[C@H](CC(C=C1)=CC=C1C2=CC=CC=C2)C[C@@H](C)C(OCC)=O.Cl	Impurity	DCTI-C-2399	ethyl (2R,4S)-5-([1,1'-biphenyl]-4-yl)-4-amino-2-methylpentanoate hydrochloride	752174-62-2	NA	C20H25NO2 (Free base) C20H26ClNO2 (Salt)	311.42 (Free base) 347.88 (Salt)
2822		Sacubitril Impurity 4	C[C@@H](C(O)=O)C[C@@H](CC(C=C1)=CC=C1C2=CC=CC=C2)NC(OC(C)(C)C)=O	Impurity	DCTI-C-2401	(2R,4S)-5-([1,1'-biphenyl]-4-yl)-4-((tert-butoxycarbonyl)amino)-2-methylpentanoic acid	1012341-50-2	NA	C23H29NO4	383.49

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2823		Sacubitril metabolite LBQ 657	C[C@@H](C(O)=O)C[C@H](NC(CCC(O)=O)=O)CC(C=C1)=CC=C1C2=CC=CC=C2	Metabolite	DCTI-A-107	(2R,4S)-5-([1,1'-biphenyl]-4-yl)-4-(3-carboxypropanamido)-2-methylpentanoic acid	149709-44-4	NA	$C_{22}H_{25}NO_5$	383.44
2824		Sacubitril Maleic Impurity	O=C(O)/C=C\C(N[C@@H](CC(C)C(OCC)=O)CC1=CC=C(C2=CC=CC=C2)C=C1)=O	Impurity	DCTI-C-2951	(Z)-4-(((2S)-1-([1,1'-biphenyl]-4-yl)-5-ethoxy-4-methyl-5-oxopentan-2-yl)amino)-4-oxobut-2-enoic acid	NA	NA	C20H26ClNO2	347.88
2825		5-([1,1'-biphenyl]-4-ylmethyl)-3,3-dimethylpyrrolidin-2-one	O=C1NC(CC1(C)C)CC2=CC=C(C=C2)C3=CC=CC=C3	Impurity	DCTI-C-2952	5-([1,1'-biphenyl]-4-ylmethyl)-3,3-dimethylpyrrolidin-2-one	NA	NA	C19H21NO	279.38
2826		Sacubitril Ene Impurity	O=C(O)CCC(N[C@@H](/C=C(C)/C(OCC)=O)CC1=CC=C(C2=CC=CC=C2)C=C1)=O	Impurity	DCTI-C-3963	(R,E)-4-((1-([1,1'-biphenyl]-4-yl)-5-ethoxy-4-methyl-5-oxopent-3-en-2-yl)amino)-4-oxobutanoic acid	NA	NA	C24H27NO5	409.48
2827		Safinamide impurity	FC1=CC(COC2=C(CC3=CC=CC(F)=C3)C=C(CN[C@H](C(N)=O)C)C=C2)=CC=C1	Impurity	DCTI-C-230	(S)-2-((3-(3-fluorobenzyl)-4-((3-fluorobenzyl)oxy)benzyl)amino)propanamide	1000370-27-3	NA	C24H24F2N2O2	410.46
2828		(S)-2-[4-(3-Fluorobenzyloxy) benzylamino]propionic acid methyl ester	COC([C@@H](NCC1=CC=C(C=C1)OCC2=CC=CC(F)=C2)C)=O	IMPURITY	DCTI-C-2706	methyl (4-((3-fluorobenzyl)oxy)benzyl)-L-alaninate	1827614-91-4	Safinamide methyl ester	C18H20FNO3	317.36
2829		4-((3-fluorobenzyl)oxy)benzaldehyde	FC1=CC(COC2=CC=C(C=O)C=C2)=CC=C1	metabolite	DCTI-C-2707	4-((3-fluorobenzyl)oxy)benzaldehyde	66742-57-2	NA	C14H11FO2	230.24

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2830	Safinamide	4-((3-fluorobenzyl)oxy)benzoic acid	O=C(O)C1=CC=C(OCC2=CC=CC(F)=C2)C=C1	metabolite	DCTI-C-2708	4-((3-fluorobenzyl)oxy)benzoic acid	405-85-6	Safinamide Benzoic Acid Impurity	C14H11FO3	246.24
2831		Safinamide Amide Impurity	FC1=CC=CC(COC2=CC=C(C(N[C@@H](C)C(N)=O)=O)C=C2)=C1	IMPURITY	DCTI-C-2727	(S)-N-(1-amino-1-oxopropan-2-yl)-4-((3-fluorobenzyl)oxy)benzamide	2268802-59-9	NA	C17H17FN2O3	316.33
2832		Methyl 4-((3-fluorobenzyl)oxy)benzoate	O=C(OC)C1=CC=C(OCC2=CC=CC(F)=C2)C=C1	IMPURITY	DCTI-C-2715	Methyl 4-((3-fluorobenzyl)oxy)benzoate	454473-78-0	NA	C15H13FO3	260.26
2833		Safinamide N-Oxide	FC1=CC=CC(COC2=CC=C(/C=[N+]([O-])/[C@@H](C)C(N)=O)C=C2)=C1	IMPURITY	DCTI-C-2738	(S,Z)-N-(1-amino-1-oxopropan-2-yl)-1-(4-((3-fluorobenzyl)oxy)phenyl)methanimine oxide	NA	(S,Z)-N-(1-amino-1-oxopropan-2-yl)-1-(4-((3-fluorobenzyl)oxy)phenyl)methanimine oxide	C17H17FN2O3	316.33
2834		Safinamide Acid	C[C@@H](C(O)=O)NCC1=CC=C(OCC2=CC=CC(F)=C2)C=C1	MEtabolite	DCTI-C-3296	(4-((3-fluorobenzyl)oxy)benzyl)-L-alanine	1160513-60-9	Safinamide Impurity 5	C17H18FNO3	303.33
2835		N-(4-((3-fluorobenzyl)oxy)benzyl)-N-nitroso-L-alanine	C[C@@H](C(O)=O)N(N=O)CC1=CC=C(OCC2=CC=CC(F)=C2)C=C1	NDSRI	DCTI-C-3297	N-(4-((3-fluorobenzyl)oxy)benzyl)-N-nitroso-L-alanine	NA	N-Nitroso Safinamide Acid mixture of isomer	C17H17FN2O4	332.33
2836		N-Nitroso-Safinamide	O=C(N)[C@H](C)N(N=O)CC1=CC=C(C=C1)OCC2=CC(F)=CC=C2	NDSRI	DCTI-C-3711	(S)-2-((4-((3-fluorobenzyl)oxy)benzyl)(nitroso)amino) propanamide	2657645-00-4	N-Nitroso safinamide (mixture of Isomers)	C17H18FN3O3	331.35

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2837	Salbutamol	Salbutamol impurity O	OCC1=C(OCC)C=CC(C(O)CNC(C)(C)C)=C1	impurity	DCTI-C-2170	2-(tert-butylamino)-1-(4-ethoxy-3-(hydroxymethyl)phenyl)ethan-1-ol	2387728-91-6	Salbutamol Ethoxy Impurity	C15H25NO3	267.37
2838		5-Formyl salicyl alcohol	OC(C=CC(C([H])=O)=C1)=C1CO	Impurity	DCTI-C-1683	4-hydroxy-3-(hydroxymethyl)benzaldehyde	54030-32-9	Salbutamol Related Compound 3	C8H8O3	152.15
2839		5-Hydroxy Salbutamol	OCC1=C(O)C(O)=CC(C(O)CNC(C)(C)C)=C1	metabolite	DCTI-C-248	5-(2-(tert-butylamino)-1-hydroxyethyl)-3-(hydroxymethyl)benzene-1,2-diol	182676-90-0	NA	C13H21NO4	255.31
2840		Salbutamol Impurity L	OCC1=C(O)C(Cl)=CC(C(O)CNC(C)(C)C)=C1.Cl	Impurity	DCTI-C-206	4-(2-(tert-butylamino)-1-hydroxyethyl)-2-chloro-6-(hydroxymethyl)phenol hydrochloride	898542-81-9	NA	C13H21Cl2NO3 (HCl Salt) C13H20ClNO3 (Free base)	310.22 (HCl Salt) 273.76 (Free base)
2841		Salbutamol EP Imp-C Tertiary butyl amine salt	NC(C)(C)C.OC1=CC=C(C(O)CNC(C)(C)C)C=C1C	impurity	DCTI-C-1232	2-methylpropan-2-aminium4-(2-(tert-butylamino)-1-hydroxyethyl)-2-methylphenolate	NA	NA	C17H32N2O2 (Ter Butyl Amine Salt) C13H21NO2 (Free Base)	296.46 (Ter Butyl Amine Salt) 223.32 (Free Base)

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2842		Salbutamol Head and tail dimer	OC1=C(CC2=CC(CO)=C(O)C=C2)C=C(C(O)CNC(C)(C)C)C=C1	impurity	DCTI-C-1184	4-(2-(tert-butylamino)-1-hydroxyethyl)-2-(4-hydroxy-3-(hydroxymethyl)benzyl)phenol	156339-89-8	NA	C20H27NO4	345.44
2843		Levalbuterol related compound F(Salbutamol)	OCC1=C(OCC2=CC=CC=C2)C=CC(C(O)CNC(C)(C)C)=C1.[H]C(O)=O	IMPURITY	DCTI-C-2755	1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)-2-(tert-butylamino)ethan-1-ol formate	56796-66-8	Salbutamol EP impurity I;(R)-4-Benzyl Albuterol	C20H27NO3 (Free Base); C21H29NO5 (Formate Salt)	329.44 (Free Base); 375.46 (Formate Salt)
2844		Salbutamol Impurity L TFA Salt	OCC1=C(O)C(Cl)=CC(C(CNC(C)(C)C)=O)=C1.O=C(O)C(F)(F)F	Impurity	DCTI-C-3103	2-(tert-butylamino)-1-(3-chloro-4-hydroxy-5-(hydroxymethyl)phenyl)ethan-1-one 2,2,2-trifluoroacetate	898542-81-9(Free base)	Salbutamol EP Impurity L	C13H20ClNO3(Free base);C15H21ClF3NO5(TFA salt)	273.76(Free base); 387.78(TFA salt)
2845		Salbutamol EP Impurity K TFA Salt	OCC1=C(C(Cl)=CC(C(CNC(C)(C)C)=O)=C1)O.O=C(O)C(F)(F)F	Impurity	DCTI-C-233	2-(tert-butylamino)-1-(3-chloro-4-hydroxy-5-(hydroxymethyl)phenyl)ethan-1-one 2,2,2-trifluoroacetate	898542-80-8(Free base)	NA	$C_{13}H_{18}ClNO_3$(Free base); C15H19ClF3NO5(TFA salt)	271.74(Free base);385.76(TFA salt)
2846		Salmeterol EP Impurity G	OC1=C(CO)C=C(C(O)CN(CC2=CC(C(O)CNCCCCCCOCCCCCC3=CC=CC=C3)=CC=C2O)CCCCCCOCCCCC4=CC=CC=C4)C=C1	Impurity	DCTI-C-105	4-(1-hydroxy-2-((2-hydroxy-5-(1-hydroxy-2-((6-(4-phenylbutoxy)hexyl)amino)ethyl)benzyl)(6-(4-phenylbutoxy)hexyl)amino)ethyl)-2-(hydroxymethyl)phenol	1391051-88-9	NA	C50H72N2O7	813.13

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2847		Salmeterol Related Impurity 7	CC(C=C1)=CC=C1CNCCCCCCOCCCCC2=CC=CC=C2.Cl	Impurity	DCTI-C-207	N-(4-methylbenzyl)-6-(4-phenylbutoxy)hexan-1-amine hydrochloride	NA	NA	C24H36ClNO (HCl Salt) C24H35NO (Free base)	390.01 (HCl salt) 353.55 (Free base)
2848		Salmeterol Related Impurity-2	C1(CCCCNCC2=CC=CC=C2)=CC=CC=C1.Cl	Impurity	DCTI-C-208	N-benzyl-4-phenylbutan-1-amine hydrochloride	NA	NA	C17H22ClN (HCl Salt) C17H21N (Free base)	275.82 (HCl Salt) 239.36 (Free base)
2849		Salmeterol Related Impurity-4	O=S(N(CC1=CC=CC=C1)CCCCC2=CC=CC=C2)(C)=O	Impurity	DCTI-C-209	N-benzyl-N-(4-phenylbutyl)methanesulfonamide	NA	NA	C18H23NO2S	317.45
2850		Salmeterol Related impurity-5	O=S(N(CC1=CC=CC=C1)CCCCCCOCCCCC2=CC=CC=C2)(C)=O	Impurity	DCTI-C-210	N-benzyl-N-(6-(4-phenyl butoxy) hexyl) methane sulphonamide	NA	NA	C24H35NO3S	417.61
2851		Salmeterol Related Impurity-8	C1(CCCCOCCCCCCOCCCCC2=CC=CC=C2)=CC=CC=C1	Impurity	DCTI-C-211	1,6-bis(4-phenylbutoxy)hexane	NA	NA	C26H38O2	382.59
2852		Salmeterol Related Impurity-9	C1(CCCCOCCCCCCOCCCCCCNCC2=CC=CC=C2)=CC=CC=C1.Cl	Impurity	DCTI-C-212	N-benzyl-6-((6-(4-phenylbutoxy)hexyl)oxy)hexan-1-amine hydrochloride	NA	NA	C29H46ClNO2 (HCl Salt) C29H45NO2 (Free base)	476.14 (HCl Salt) 439.68 (Free base)
2853		Salmeterol Related Impurity-10	C1(CCCCN(CC2=CC=CC=C2)CCCCCCOCCCCC3=CC=CC=C3)=CC=CC=C1	Impurity	DCTI-C-213	N-benzyl-6-(4-phenylbutoxy)-N-(4-phenylbutyl)hexan-1-amine	NA	NA	C33H45NO	471.73

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2854		Salmeterol Related Impurity-11	C1(CNCCCCCCNCC2=CC=CC=C2)=CC=CC=C1.[. 2 HCl]	Impurity	DCTI-C-214	N^1,N^6-dibenzylhexane-1,6-diamine dihydrochloride	NA	NA	C20H30Cl2N2 (2HCl Salt) C20H28N2 (Free base)	369.37 (2HCl Salt) 296.46 (Free base)
2855		Salmeterol Related Impurity-1	N(CCCCCCOCCCCC1=CC=CC=C1)(CC2=CC=CC=C2)CCCCCCOCCCCC3=CC=CC=C3	Impurity	DCTI-C-235	N-benzyl-6-(4-phenylbutoxy)-N-(6-(4-phenylbutoxy)hexyl)hexan-1-amine	NA	NA	C39H57NO2	571.89
2856		1-(4-(benzyloxy)-3-methylphenyl)-2-bromoethan-1-one	CC1=C(OCC2=CC=CC=C2)C=CC(C(CBr)=O)=C1	Impurity	DCTI-C-506	1-(4-(benzyloxy)-3-methylphenyl)-2-bromoethan-1-one	56443-33-5	NA	C16H15BrO2	319.2
2857		4,4'-(1,3-phenylene)bis(butan-1-ol)	OCCCCC1=CC(CCCCO)=CC=C1	Impurity	DCTI-C-507	4,4'-(1,3-phenylene)bis(butan-1-ol)	134520-03-9	Meta di subtituted phenyl butanol	C14H22O2	222.33
2858		Benzyl 2-(benzyloxy)benzoate	O=C(OCC1=CC=CC=C1)C2=C(OCC3=CC=CC=C3)C=CC=C2	Impurity	DCTI-C-508	benzyl 2-(benzyloxy)benzoate	14389-87-8	NA	C21H18O3	318.37
2859		Benzyl 5-acetyl-2-(benzyloxy)benzoate	O=C(OCC1=CC=CC=C1)C2=C(OCC3=CC=CC=C3)C=CC(C(C)=O)=C2	Impurity	DCTI-C-517	benzyl 5-acetyl-2-(benzyloxy)benzoate	1292299-06-9	NA	C23H20O4	360.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2860	Salmeterol	1-bromo-2-(4-bromobutyl)benzene	BrC1=CC=CC=C1CCCCBr	Impurity	DCTI-C-548	1-bromo-2-(4-bromobutyl)benzene	1342870-80-7	NA	C10H12Br2	292.01
2861		1-bromo-4-(4-bromobutyl) benzene	BrCCCCC1=CC=C(Br)C=C1	Impurity	DCTI-C-549	1-bromo-4-(4-bromobutyl)benzene	88999-91-1	NA	C10H12Br2	292.01
2862		4,4'-(1,4-phenylene)bis(butan-1-ol)	OCCCCC1=CC=C(C=C1)CCCCO	Impurity	DCTI-C-550	4,4'-(1,4-phenylene)bis(butan-1-ol)	21240-37-9	p-Benzenedibutanol (8CI)	C14H22O2	222.33
2863		4,4'-(1,2-phenylene)bis(butan-1-ol)	OCCCCC1=C(CCCCO)C=CC=C1	Impurity	DCTI-C-551	4,4'-(1,2-phenylene)bis(butan-1-ol)	134520-06-2	NA	C14H22O2	222.33
2864		Benzylated amino methyl impurity of SAM-V	OCC1=C(OCC2=CC=CC=C2)C=CC(CN)=C1.Cl	Impurity	DCTI-C-595	(5-(aminomethyl)-2-(benzyloxy)phenyl)methanol hydrochloride	NA	NA	C15H18ClNO2 (HCl Salt) C15H17NO2 (Free base)	279.76 (HCl Salt) 243.31 (Free base)
2865		Alpha-Hydroxy salmeterol	OC(CNCCCCCCOCCCC(O)C1=CC=CC=C1)C2=CC(CO)=C(O)C=C2	Metabolite	DCTI-C-667	4-(1-hydroxy-2-((6-(4-hydroxy-4-phenylbutoxy)hexyl)amino)ethyl)-2-(hydroxymethyl)phenol	152405-02-2	NA	C25H37NO5	431.57

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2866		6-Amino-1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)hexan-1-ol	OCC1=C(OCC2=CC=CC=C2)C=CC(C(CCCCCN)O)=C1	Impurity	DCTI-C-811	6-amino-1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)hexan-1-ol	NA	NA	C20H27NO3	329.44
2867		1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)-2-((6-(4-phenylbutoxy)hexyl)amino)ethan-1-ol	OCC1=C(OCC2=CC=CC=C2)C=CC(C(CNCCCCCCOCCCCC3=CC=CC=C3)O)=C1	Impurity	DCTI-C-789	1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)-2-((6-(4-phenylbutoxy)hexyl)amino)ethan-1-ol	NA	NA	C32H43NO4	505.7
2868		Dimethyl-4-(benzyloxy)isopthalate	O=C(OC)C1=C(OCC2=CC=CC=C2)C=CC(C(OC)=O)=C1	Impurity	DCTI-C-816	dimethyl 4-(benzyloxy)isophthalate	63295-94-3	NA	C17H16O5	300.31
2869		2-(benzyl(6-(4-phenylbutoxy)hexyl)amino)-1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)ethan-1-one	OCC1=C(OCC2=CC=CC=C2)C=CC(C(CN(CC3=CC=CC=C3)CCCCCCOCCCCC4=CC=CC=C4)=O)=C1	Impurity	DCTI-C-787	2-(benzyl(6-(4-phenylbutoxy)hexyl)amino)-1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)ethan-1-one	NA	NA	C39H47NO4	593.81
2870		(4-(benzyloxy)-1,3-phenylene)dimethanol	OCC1=CC(CO)=CC=C1OCC2=CC=CC=C2	impurity	DCTI-C-973	(4-(benzyloxy)-1,3-phenylene)dimethanol	63295-95-4	NA	C15H16O3	244.29
2871		2-amino-1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)ethan-1-ol	OCC1=CC(C(O)CN)=CC=C1OCC2=CC=CC=C2	impurity	DCTI-C-1214	2-amino-1-(4-(benzyloxy)-3-(hydroxymethyl)phenyl)ethan-1-ol	92900-77-1	NA	C16H19NO3	273.33

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2872		Salmeterol EP Impurity D	OCC1=CC(C(CNCCCCCCOCCCCC2=CC=CC=C2)O)=CC=C1OCC(O)C3=CC=C(O)C(CO)=C3	Impurity	DCTI-C-2983	4-(1-hydroxy-2-(4-(1-hydroxy-2-((6-(4-phenylbutoxy)hexyl)amino)ethyl)-2-(hydroxymethyl)phenoxy)ethyl)-2-(hydroxymethyl)phenol	1391052-04-2	NA	C34H47NO7	581.75
2873		Salmeterol EP Impurity E	OC1=CC=C(C(O)CNCCCCCCOC(C)CCC2=CC=CC=C2)C=C1CO	IMPURITY	DCTI-C-3222	4-(1-hydroxy-2-((6-((4-phenylbutan-2-yl)oxy)hexyl)amino)ethyl)-2-(hydroxymethyl)phenol	108928-81-0	NA	C25H37NO4	415.57
2874		Salmeterol EP Impurity F	OC1=CC=C(C(O)CNCCCCCCOCCCCC2=CC=CC=C2)C=C1C	IMPURITY	DCTI-C-3228	4-(1-hydroxy-2-((6-(4-phenylbutoxy)hexyl)amino)ethyl)-2-methylphenol	1391054-40-2	3-De(hydroxymethyl)-3-methyl Salmeterol	C25H37NO3	399.58
2875		1-hydroxy-2-naphthoic acid	OC1=C(C(O)=O)C=CC2=CC=CC=C21	Impurity	DCTI-C-3622	1-hydroxy-2-naphthoic acid	86-48-6	1-Hydroxy-2-naphthalenecarboxylic Acid, Xinafoic Acid	C11H8O3	188.18
2876		N-Nitroso Salmeterol	O=NN(CC(O)C1=CC=C(O)C(CO)=C1)CCCCCCOCCCCC2=CC=CC=C2	NDSRI	DCTI-C-3802	N-(2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)-N-(6-(4-phenylbutoxy)hexyl)nitrous amide	NA	NA	C25H36N2O5	444.57
2877		Saxagliptin Imine Impurity	O=C1N2[C@@H](C[C@@H]3C[C@H]23)C(N)=N[C@H]1C45CC6CC(CC(C6)(C5)O)C4	MEtabolite	DCTI-C-1242	(1aS,4S,6aS,7aS)-6-amino-4-(3-hydroxyadamantan-1-yl)-1,1a,4,6a,7,7a-hexahydro-3H-cyclopropa[4,5]pyrrolo[1,2-a]pyrazin-3-one	1194836-77-5	NA	C18H25N3O2	315.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2878	Saxagliptin	Saxagliptin isomers-R,R,R,R	N#C[C@@H]1N(C([C@H](N)C2(C3)CC4(O)CC3CC(C4)C2)=O)[C@]5([H])C[C@]5([H])C1	DCTI-C-1581	(1R,3R,5R)-2-((2R)-2-amino-2-(3-hydroxyadamantan-1-yl)acetyl)-2-azabicyclo[3.1.0]hexane-3-carbonitrile		1564265-95-7	$C_{18}H_{25}N_3O_2$	315.41	
2879		Saxagliptin diastereoisomer-S,R,S,S	N#C[C@@H]1N(C([C@@H](N)C2(C3)CC4(O)CC3CC(C4)C2)=O)[C@@]5([H])C[C@@]5([H])C1	DCTI-C-1582	(1S,3R,5S)-2-((2S)-2-amino-2-(3-hydroxyadamantan-1-yl)acetyl)-2-azabicyclo[3.1.0]hexane-3-carbonitrile		1564266-00-7	$C_{18}H_{25}N_3O_2$	315.42	
2880		Saxagliptin diastereoisomer-R,S,S,S	N#C[C@H]1N(C([C@H](N)C2(C3)CC4(O)CC3CC(C4)C2)=O)[C@@]5([H])C[C@@]5([H])C1	DCTI-C-1583	(1S,3S,5S)-2-((2R)-2-amino-2-(3-hydroxyadamantan-1-yl)acetyl)-2-azabicyclo[3.1.0]hexane-3-carbonitrile		1564265-93-5	$C_{18}H_{25}N_3O_2$	315.42	
2881		N-Boc-3,4-dihydroxy-(S)-adamantyl glycine	O=C(O)[C@H]([C@@]1(C2)C[C@@](O)(C3)C[C@@]2(O)C[C@@H]3C1)NC(OC(C)(C)C)=O	DCTI-C-2338	(S)-2-((tert-butoxycarbonyl)amino)-2-((1r,3R,5S,7S)-3,5-dihydroxyadamantan-1-yl)acetic acid		681282-72-4	C17H27NO6	341.4	
2882		N-Boc-adamatyl glycine	O=C(O)[C@@H]([C@@]1(C2)C[C@@](O)(C3)C[C@H]2C[C@@H]3C1)NC(OC(C)(C)C)=O	DCTI-C-2339	(R)-2-((tert-butoxycarbonyl)amino)-2-((1r,3S,5R,7S)-3-hydroxyadamantan-1-yl)acetic acid		1334321-39-9	C17H27NO5	325.41	

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2883	Scopolamine	Hysocine Butylbromide EP Impurity E	O=C(O[C@H]1C[C@@]2([H])[C@]3([H])O[C@]3([H])[C@@](N2CCCC)([H])C1)[C@@H](C4=CC=CC=C4)CO.Cl	impurity	DCTI-C-1802	(1R,2R,4S,5S,7s)-9-butyl-3-oxa-9-azatricyclo[3.3.1.02,4]nonan-7-yl (S)-3-hydroxy-2-phenylpropanoate hydrochloride	NA	NA	C20H27NO4 (Free Base) C20H28ClNO4 (HCl Salt)	345.44 (Free Base) 381.90 (HCl Salt)
2884		Scopolamine Enantiomer	O=C([C@@H](CO)C1=CC=CC=C1)O[C@@H]2C[C@H]3N(C)[C@H]([C@H]4[C@@H]3O4)C2	Impurity	DCTI-C-908	(1R,2R,4S,5S,7s)-9-methyl-3-oxa-9-azatricyclo[3.3.1.02,4]nonan-7-yl (R)-3-hydroxy-2-phenylpropanoate	NA	NA	C17H21NO4	303.36
2885		N-Nitroso Scopolamine	O=C(O[C@@H]1C[C@@]2([H])[C@]3([H])O[C@]3([H])[C@@](N2N=O)([H])C1)[C@@H](C4=CC=CC=C4)CO	NDSRI	DCTI-C-3209	(1R,2R,4S,5S,7r)-9-nitroso-3-oxa-9-azatricyclo[3.3.1.02,4]nonan-7-yl (S)-3-hydroxy-2-phenylpropanoate	NA	N-Nitroso Desmethyl Scopolamine	C16H18N2O5	318.33
2886		N-Desmethyl Scopolamine	O=C([C@H](CO)C1=CC=CC=C1)O[C@H]2C[C@]3([C@@]4(O[C@@]4([C@@]([H])(C2)N3)[H])[H])[H].[H]Cl	Impurity	DCTI-C-1571	(1R,2R,4S,5S,7s)-3-oxa-9-azatricyclo[3.3.1.02,4]nonan-7-yl (S)-3-hydroxy-2-phenylpropanoate hydrochloride	4684-28-0 (free acid)	Hyoscine EP imp A	C16H20ClNO4(Hcl SALT);C16H19NO4(free base)	325.79(HCL Salt); 289.33(free base)
2887	**Scopoline**	Scopoline Methobromide	O[C@@H]1[C@@]2([C@@]3([H])C[C@@H](O2)C[C@@H]1[N+]3(C)C)[H].[Br-]	Impurity	DCTI-C-2871	(2S,3aR,5S,6S,6aS)-6-hydroxy-4,4-dimethylhexahydro-2H-2,5-methanofuro[3,2-b]pyrrol-4-ium bromide	845870-40-8	Tiotropium EP Impurity H	C9H16BrNO2 (Bromide salt)C9H16NO2 (Free Base)	170.23(Free Base); 250.14 (Bromide salt)
2888		Selexipag Impurity 2	CC(C)N(CCCCOCC(OCC)=O)C1=NC(C2=CC=CC=C2)=C(C3=CC=CC=C3)N=C1	Impurity	DCTI-C-391	ethyl 2-(4-((5,6-diphenylpyrazin-2-yl)(isopropyl)amino)butoxy)acetate	NA	NA	C27H33N3O3	447.58

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2889	Selexipag	Selexipag Impurity 7	CC(C)N(CCCCOC([H])=O)C1=NC(C2=CC=CC=C2)=C(C3=CC=CC=C3)N=C1	impurity	DCTI-C-2246	4-((5,6-diphenylpyrazin-2-yl)(isopropyl)amino)butyl formate.	2273000-76-1	NA	C24H27N3O2	389.5
2890		Selexipag Impurity-3	CC(C)N(CCCCOCC(OC(C)(C)C)=O)C1=NC(C2=CC=CC=C2)=C(C3=CC=CC=C3)N=C1	Impurity	DCTI-C-635	tert-butyl 2-(4-((5,6-diphenylpyrazin-2-yl)(isopropyl)amino)butoxy)acetate	475084-96-9	NA	C29H37N3O3	475.63
2891		Selexipag Impurity A	CC(N(C1=CN=C(C2=CC=CC=C2)C(C3=CC=CC=C3)=N1)CCCCO)C	Impurity	DCTI-C-2522	4-((5,6-diphenylpyrazin-2-yl)(isopropyl)amino)butan-1-ol	475086-75-0	Selexipag Isopropyl amine Impurity	C23H27N3O	361.49
2892		Selexipag Imp RT 42.3	CC(C)N(CCCC1OC(CO1)=O)C2=NC(C3=CC=CC=C3)=C(C4=CC=CC=C4)N=C2	Impurity	DCTI-C-2478	2-(3-((5,6-diphenylpyrazin-2-yl)(isopropyl)amino)propyl)-1,3-dioxolan-4-one	NA	Selexipag Impurity 8	C25H27N3O3	417.51
2893		Selexipag Impurity 2	CC(C)N(CCCCOCCCC)C1=NC(C2=CC=CC=C2)=C(C3=CC=CC=C3)N=C1	Impurity	DCTI-C-2479	N-(4-butoxybutyl)-N-isopropyl-5,6-diphenylpyrazin-2-amine	NA	NA	C27H35N3O	417.6

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2894		Selexipag Active metabolite	CC(C)N(CCCCOCC(O)=O)C1=NC(C2=CC=CC=C2)=C(C3=CC=CC=C3)N=C1	Metabolite	DCTI-A-115	2-(4-((5,6-diphenylpyrazin-2-yl)(isopropyl)amino)butoxy)acetic acid	475085-57-5	ACT 333679; MRE 269	$C_{25}H_{29}N_3O_3$	419.53
2895	Selpercatinib	Selpercatinib Amide Impurity	COC1=CC=C(C=N1)CN2C3CC2CN(C3)C4=NC=C(C5=CC(OCC(C)(O)C)=CN6N=CC(C(N)=O)=C56)C=C4	Metabolite	DCTI-C-2791	6-(2-hydroxy-2-methylpropoxy)-4-(6-((6-methoxypyridin-3-yl)methyl)-3,6-diazabicyclo[3.1.1]heptan-3-yl)pyridin-3-yl)pyrazolo[1,5-a]pyridine-3-carboxamide	2817648-27-2	NA	C29H33N7O4	543.63
2896		Selpercatinib Metabolite M2	COC1=CC=C(C=N1)CN2(C3CC2CN(C3)C4=NC=C(C5=CC(OCC(C)(O)C)=CN6N=CC(C#N)=C56)C=C4)=O	Metabolite	DCTI-C-2778	3-(5-(3-cyano-6-(2-hydroxy-2-methylpropoxy)pyrazolo[1,5-a]pyridin-4-yl)pyridin-2-yl)-6-((6-methoxypyridin-3-yl)methyl)-3,6-diazabicyclo[3.1.1]heptane 6-oxide	NA	Selpercatinib N-oxide	C29H31N7O4	541.61
2897	Sertraline	N-Nitroso Sertraline	CN(N=O)[C@H]1CC[C@@H](C2=CC=C(Cl)C(Cl)=C2)C3=C1C=CC=C3	NDSRI	DCTI-C-2364	N-((1S,4S)-4-(3,4-dichlorophenyl)-1,2,3,4-tetrahydronaphthalen-1-yl)-N-methylnitrous amide	NA	NA	C17H16Cl2N2O	335.23
2898		3-Chlorophenyl Sertraline Hydrochloride	ClC1=CC([C@@H]2C3=CC=CC=C3[C@H](NC)CC2)=CC=C1.Cl	Impurity	DCTI-C-3580	(1RS,4RS)-4-(3-chlorophenyl)-N-methyl-1,2,3,4-tetrahydronaphthalen-1-amine hydrochloride	2378750-29-7 (Free base)	NA	C17H18ClN (Free base) C17H19Cl2N (HCl salt)	271.79 (Free base) 308.25 (HCl salt)
2899		2,3-Isosertraline Hydrochloride	CN[C@H](CC1)C(C=CC=C2)=C2[C@@H]1C3=C(Cl)C(Cl)=CC=C3.Cl	Impurity	DCTI-C-3664	(1RS,4RS)-4-(2,3-dichlorophenyl)-N-methyl-1,2,3,4-tetrahydronaphthalen-1-amine Hydrochloride	2124277-88-7	NA	C17H17Cl2N (Free base) ; C17H18Cl3N (HCl Salt)	06.23 (Free base) ; 342.69(HCl Sa

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2900		Homo Sildenafil	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(N4CCN(CC)CC4)=O)=C3)=NC2=O	Impurity	DCTI-C-094	5-(2-ethoxy-5-((4-ethylpiperazin-1-yl)sulfonyl)phenyl)-1-methyl-3-propyl-1,4-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one	642928-07-2	NA	C23H32N6O4S	488.61
2901		Piperazine N-desmethyl Sildenafil	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(N4CCNCC4)=O)=C3)=NC2=O	Metabolite	DCTI-C-059	5-(2-ethoxy-5-(piperazin-1-ylsulfonyl)phenyl)-1-methyl-3-propyl-1,4-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one	139755-82-1	UK 103320	C21H28N6O4S	460.55
2902		sildenafil ethyl side chain	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(NCCN)=O)=C3)=NC2=O	Metabolite	DCTI-C-061	N-(2-aminoethyl)-4-ethoxy-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)benzenesulfonamide	1015447-61-6	NA	C19H26N6O4S	434.52
2903		Descarbon Sildenafil	CN1N=C(CCC)C(NC(C2=CC(S(=O)(NCCN(C)C)=O)=CC=C2OCC)=N3)=C1C3=O	Impurity	DCTI-C-077	N-(2-(dimethylamino)ethyl)-4-ethoxy-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)benzenesulfonamide	1393816-99-3	NA	C21H30N6O4S	462.57
2904		Sildenafil sulfonamide	CN1N=C(CCC)C(NC(C2=CC(S(=O)(N(C)CCN)=O)=CC=C2OCC)=N3)=C1C3=O	Impurity	DCTI-C-078	N-(2-aminoethyl)-4-ethoxy-N-methyl-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)benzenesulfonamide	NA	NA	C20H28N6O4S	448.54
2905		Hydroxy Homo Sildenafil	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(N4CCN(CCO)CC4)=O)=C3)=NC2=O	Impurity	DCTI-C-095	5-(2-ethoxy-5-((4-(2-hydroxyethyl)piperazin-1-yl)sulfonyl)phenyl)-1-methyl-3-propyl-1,4-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one	139755-85-4	NA	C23H32N6O5S	504.61

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2906	Sildenafil	N-desmethyl N-Benzyl Sildenafil	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(N4CCN(CC5=CC=CC=C5)CC4)=O)=C3)=NC2=O	Impurity	DCTI-C-096	5-(5-((4-benzylpiperazin-1-yl)sulfonyl)-2-ethoxyphenyl)-1-methyl-3-propyl-1,4-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one	1446089-82-2	NA	C28H34N6O4S	550.68
2907		Sildenafil Chlorosulfonyl compound	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(Cl)=O)=C3)=NC2=O	Impurity	DCTI-C-097	4-ethoxy-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)benzenesulfonyl chloride	139756-22-2	NA	C17H19ClN4O4S	410.87
2908		Sildenafil N-oxide	CCCC1=NN(C)C2=C1NC(C3=C(OCC)C=CC(S(=O)(N4CC[N+](C)([O-])CC4)=O)=C3)=NC2=O	Impurity	DCTI-C-177	4-((4-ethoxy-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)phenyl)sulfonyl)-1-methylpiperazine 1-oxide	1094598-75-0	NA	C22H30N6O5S	490.58
2909		Sildenafil impurity	CN1N=C(CCC)C(N=C2C3=CC(S(=O)(N(C)CCN)=O)=CC=C3OCC)=C1C(N2)=O	impurity	DCTI-C-1138	N-(2-aminoethyl)-4-ethoxy-N-methyl-3-(1-methyl-7-oxo-3-propyl-6,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)benzenesulfonamide	NA	NA	C20H28N6O4S	448.54
2910		N-(Desmethyl)-tert-butyl Acetate Sildenafil	CCCC1=NN(C)C2=C1N=C(C3=C(OCC)C=CC(S(=O)(N4CCN(C(OC(C)(C)C)=O)CC4)=O)=C3)NC2=O	Impurity	DCTI-C-2302	tert-butyl 4-((4-ethoxy-3-(1-methyl-7-oxo-3-propyl-6,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)phenyl)sulfonyl)piperazine-1-carboxylate	398507-63-6	Sidenafil RC7	C26H36N6O6S	560.67

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2911		Sildenafil EPimpurityD	O=S(C1=CC=C(OCC)C(C(NC2=C3N(C)N=C2CCC)=NC3=O)=C1)(O)=O	Impurity	DCTI-C-2303	4-ethoxy-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo(4,3-d)pyrimidin-5-yl)benzenesulfonic acid	1357931-55-5	Desmethylpiperazinyl sildenafil sulfonic acid	C17H20N4O5S	392.43
2912		sildenafil EP impurity G	O=C1C(N(C)N=C2CCC)=C2N=C(C3=CC(S(=O)(N4CCN(S(=O)(C5=CC(C(NC6=C7N(C)N=C6CCC)=NC7=O)=C(OCC)C=C5)=O)CC4)=O)=CC=C3OCC)N1	Impurity	DCTI-C-2287	5-(2-ethoxy-5-((4-((4-ethoxy-3-(1-methyl-7-oxo-3-propyl-4,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)phenyl)sulfonyl)piperazin-1-yl)sulfonyl)phenyl)-1-methyl-3-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one	1346602-67-2	Sildenafil Dimer impurity	C38H46N10O8S2	834.97
2913		N-Nitroso sildenafil impurity 2	O=S(N1CCN(N=O)CC1)(C2=CC=C(OCC)C(C3=NC(C(CCC)=NN4C)=C4C(N3)=O)=C2)=O	NDSRI	DCTI-C-3692	5-(2-ethoxy-5-((4-nitrosopiperazin-1-yl)sulfonyl)phenyl)-1-methyl-3-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one	NA	NA	C21H27N7O5S	489.55
2914		Silodosin KSM	N[C@H](C)CC1=CC(C#N)=C(N(CCCOC(C2=CC=CC=C2)=O)CC3)C3=C1.OC([C@H](O)[C@@H](O)C(O)=O)=O	Impurity	DCTI-C-171	(R)-3-(5-(2-aminopropyl)-7-cyanoindolin-1-yl)propyl benzoate (2R,3R)-2,3-dihydroxysuccinate	239463-85-5	NA	C26H31N3O8 (Salt) C22H25N3O2 (Free base)	513.55 (Salt) 363.46 (Free base)
2915		Silodosin Nitrile Impurity	OCCCN1C2=C(C#N)C=C(C[C@@H](C)NCCOC3=CC=CC=C3OCC(F)(F)F)C=C2CC1	Impurity	DCTI-C-392	(R)-1-(3-hydroxypropyl)-5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)indoline-7-carbonitrile	885340-13-6	NA	C25H30F3N3O3	477.53

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2916	Silodosin	Silodosin Dehydro Impurity	O=C(C1=CC(C[C@H](NCCOC2=CC=CC=C2OCC(F)(F)F)C)=CC3=C1N(CCCO)C=C3)N	Metabolite	DCTI-C-2570	(R)-1-(3-hydroxypropyl)-5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)-1H-indole-7-carboxamide	175870-21-0	Dihydro Silodosin	C25H30F3N3O4	493.53
2917		Silodosin Racemic mixture	OCCCN1C2=C(C(N)=O)C=C(CC(C)NCCOC3=CC=CC=C3OCC(F)(F)F)C=C2CC1	Impurity	DCTI-C-2583	1-(3-hydroxypropyl)-5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)indoline-7-carboxamide	160970-64-9	rac- silodosin	C25H32F3N3O4	495.54
2918		N-Nitroso Silodosin	C[C@H](CC1=CC(C(N)=O)=C2C(CCN2CCCO)=C1)N(N=O)CCOC3=C(OCC(F)(F)F)C=CC=C3	NDSRI	DCTI-C-3096	(R)-1-(3-hydroxypropyl)-5-(2-(nitroso(2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)indoline-7-carboxamide	NA	NA	C25H31F3N4O5	524.54
2919		Silodosin Isomer	C[C@@H](CC1=CC(C(N)=O)=C2C(CCN2CCCO)=C1)NCCOC3=C(OCC(F)(F)F)C=CC=C3	Impurity	DCTI-C-3105	(S)-1-(3-hydroxypropyl)-5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)indoline-7-carboxamide	2182279-45-2	Silodosin S-Isomer; (S)-Silodosin	C25H32F3N3O4	495.54
2920		Silodosin Related Substance-C	CC(NCCOC1=CC=CC=C1OCC(F)(F)F)CC2=CC(C(N)=O)=C(NC=C3)C3=C2	Impurity	DCTI-C-3146	5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)-1H-indole-7-carboxamide	2052161-50-7	NA	C22H24F3N3O3	435.45
2921		Silodosin Dehydro Nitrile impurity	CC(NCCOC1=CC=CC=C1OCC(F)(F)F)CC2=CC(C#N)=C(N(CCCO)C=C3)C3=C2	Impurity	DCTI-C-3425	1-(3-hydroxypropyl)-5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)-1H-indole-7-carbonitrile	1894189-16-2	NA	C25H28F3N3O3	475.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2922		Silodosin Related impurity	CC(NCCOC1=CC=CC=C1OCC(F)(F)F)CC2=CC(C#N)=C(NC=C3)C3=C2	Impurity	DCTI-C-3426	5-(2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)-1H-indole-7-carboxamide	NA	NA	C22H22F3N3O2	417.43
2923		Silodosin glucoronide	C[C@@H](NCCOC1=CC=CC=C1OCC(F)(F)F)CC2=CC(C(N)=O)=C(N(CCCO[C@H]3[C@H](O)[C@@H](O)[C@H](O)[C@@H](C(O)=O)O3)CC4)C4=C2	Metabolite	DCTI-A-034	(2S,3S,4S,5R,6R)-6-(3-(7-carbamoyl-5-((R)-2-((2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)indolin-1-yl)propoxy)-3,4,5-trihydroxytetrahydro-2H-pyran-2-carboxylic acid	879396-70-0	NA	$C_{31}H_{40}F_3N_3O_{10}$	671.67
2924	Siponimod	Siponimod M17	C/C(C1=CC=C(CN2CC(C(O[C@@H](CC3)CC4=CC[C@@]([C@@](CC5)([H])[C@]43C)([H])[C@@](CC[C@]6([H])[C@H](C)CCCC(C)C)([H])[C@]56C)=O)C2)C(CC)=C1)=N\OCC7=CC=C(C8CCCCC8)C(C(F)(F)F)=C7	metabolite	DCTI-C-2247	(3S,8S,9S,10R,13R,14S,17R)-10,13-dimethyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9, 10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl 1-(4-((E)-1-(((4-cyclohexyl-3-(trifluoromethyl)benzyl)oxy)imino)ethyl)-2-ethylbenzyl)azetidine-3-carboxylate.	NA	Cholesteryl Siponimod; cholesterol ester of Siponimod; Siponimod metabolite M17.	C56H79F3N2O3	885.25
2925		Siponimod Z-Isomer	C/C(C1=CC=C(CN2CC(C(O)=O)C2)C(CC)=C1)=N/OCC3=CC(C(F)(F)F)=C(C4CCCCC4)C=C3	Impurity	DCTI-C-3184	(Z)-1-(4-(1-(((4-cyclohexyl-3-(trifluoromethyl) benzyl)oxy)imino)ethyl)-2-ethylbenzyl)azetidine-3-carboxylic acid	2768181-14-0	Z-Siponimod	C29H35F3N2O3	516.61
2926		SIPONIMOD IMPURITY 13 (SPD-Amine Dimer)	C/C(C1=CC(CC)=C(CN2CC(C(NOCC3=CC=C(C4CCCCC4)C=C3C(F)(F)F)=O)C2)C=C1)=N\OCC(C=C5C(F)(F)F)=CC=C5C6CCCCC6	IMPURITY	DCTI-C-3538	(E)-N-((4-cyclohexyl-2-(trifluoromethyl)benzyl)oxy)-1-(4-(1-(((4-cyclohexyl-3-(trifluoromethyl)benzyl)oxy)imino)ethyl)-2-ethylbenzyl)azetidine-3-carboxamide	NA	Siponimod Amine Dimer	C43H51F6N3O3	771.89
2927		Siponimod Z-Isomer diethylamine salt	CCNCC.O=C(C1CN(CC2=CC=C(/C(C)=N\OCC3=CC=C(C4CCCCC4)C(C(F)(F)F)=C3)C=C2CC)C1)O	IMPURITY	DCTI-C-2717	Diethylamine (Z)-1-(4-(1-(((4-cyclohexyl-3-(trifluoromethyl)benzyl)oxy)imino)ethyl)-2-ethylbenzyl)azetidine-3-carboxylate	2768181-14-0	Z-Siponimod;Siponimod Z-Isomer	C29H35F3N2O3 (Free acid); C33H46F3N3O3 (Salt)	516.61(Free acid); 589.74 (Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2928		1-(4-ETHYL-3-(HYDROXYMETHYL) PHENYL)ETHAN-1-ONE	CC(C1=CC=C(C(CO)=C1)CC)=O	IMPURITY	DCTI-C-3268	1-(4-ethyl-3-(hydroxymethyl)phenyl)ethan-1-one	NA	Siponimod Regioisomer SKM-1	C11H14O2	178.23
2929		Sitagliptin Triazecine Analog	FC1=C(F)C=C(F)C(CC(CC(NCCN2C3=NN=C2C(F)(F)F)=O)NC3=O)=C1	Impurity	DCTI-C-748	10-(2,4,5-trifluorobenzyl)-3-(trifluoromethyl)-6,7,10,11-tetrahydro-[1,2,4]triazolo[3,4-c][1,4,7]triazecine-8,12(5H,9H)-dione	NA	Sitagliptin EP Impurity FP-B	C16H13F6N5O2	421.3
2930		Sitagliptin Enamine impurity	FC1=CC(C/C(N)=C/C(N2CC3=NN=C(C(F)(F)F)N3CC2)=O)=C(C=C1F)F	Impurity	DCTI-C-776	3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)but-2-en-1-one	NA	NA	C16H13F6N5O	405.3
2931		rac-Sitagliptin	FC1=C(F)C=C(CC(CC(N2CCN3C(C2)=NN=C3C(F)(F)F)=O)N)C(F)=C1.Cl	Impurity	DCTI-C-823	3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one hydrochloride	NA	NA	C16H15F6N5O (Free base) C16H16ClF6N5O (Salt)	407.31 (Free base) 443.8 (Salt)
2932		Sitagliptin Keto Amide Impurity	FC1=C(F)C=C(F)C(CC(CC(N2CC3=NN=C(C(F)(F)F)N3CC2)=O)=O)=C1	Impurity	DCTI-C-824	1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butane-1,3-dione	764667-65-4	Prositagliptin ketone	C16H12F6N4O2	406.29

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2933	Sitagliptin	Sitagliptin acid	FC1=C(F)C=C(C[C@@H](N)CC(O)=O)C(F)=C1.Cl	Impurity	DCTI-C-825	(R)-3-amino-4-(2,4,5-trifluorophenyl)butanoic acid hydrochloride	1204818-19-8	Sitagliptin EP impurity E; Sitagliptin impurity-E	C10H10F3NO2 (Free Base) C10H11ClF3NO2 (Salt)	233.19 (Free Base) 269.65 (Salt)
2934		(S)-Sitagliptin	FC1=C(F)C=C(C[C@@H](CC(N2CCN3C(C2)=NN=C3C(F)(F)F)=O)N)C(F)=C1.Cl	Impurity	DCTI-C-848	(S)-3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one hydrochloride	823817-55-6	NA	C16H16ClF6N5	443.8
2935		Sitagliptin alcohol	FC1=C(F)C=C(F)C(CC(O)CC(N2CC3=NN=C(C(F)(F)F)N3CC2)=O)=C1	Impurity	DCTI-C-2628	3-hydroxy-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one	1253056-01-7	Sitagliptin hydroxy amide impurity;Deamine 3-hydroxy sitagliptin	C16H14F6N4O2	408.3
2936		7-nitroso-3-(trifluoromethyl)-5,6,7,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrazine	FC(F)(F)C1=NN=C2N1CCN(N=O)C2	NDSRI	DCTI-C-2432	7-nitroso-3-(trifluoromethyl)-5,6,7,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrazine	NA	NA	C6H6F3N5O	221.14
2937		3-(trifluoromethyl)-6,7-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-8-(5H)-one	O=C1C2=NN=C(C(F)(F)F)N2CCN1	Impurity	DCTI-C-2826	3-(trifluoromethyl)-6,7-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-8-(5H)-one	877402-45-4	Sitagliptin Pyrazinone Impurity	C6H5F3N4O	206.13
2938		2,3,5-Trifluoro sitagliptin phosphate	FC1=C(F)C=C(F)C=C1CC(N)CC(N2CC3=NN=C(C(F)(F)F)N3CC2)=O.O=P(O)(O)O	Impurity	DCTI-C-3088	3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,3,5-trifluorophenyl)butan-1-one phosphate	NA	NA	C16H15F6N5O (free base)C16H18F6N5O5P (Phosphate salt)	407.32 (free base)505.31 (Phosphate salt)

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2939		3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,3,6-trifluorophenyl)butan-1-one phosphate	FC1=C(F)C=CC(F)=C1CC(N)CC(N2CC3=NN=C(C(F)(F)F)N3CC2)=O.OP(O)(O)=O	Impurity	DCTI-C-3086	3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,3,6-trifluorophenyl)butan-1-one phosphate	NA	2,3,6-Trifluoro sitagliptin phosphate	C16H18F6N5O5P (Phosphate salt)C16H15F6N5O (free base)	407.32 (free base)505.31 (Phosphate salt)
2940		Sitagliptin styrylacetyl analog	FC1=C(F)C=C(F)C(/C=C/CC(N2CC3=NN=C(C(F)(F)F)N3CC2)=O)=C1	IMPURITY	DCTI-C-3515	(E)-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)but-3-en-1-one	1803026-58-5	NA	C16H12F6N4O	390.29
2941		Sitagliptin Phenylcrotonyl Analog	FC1=C(F)C=C(F)C(C/C=C/C(N2CC3=NN=C(C(F)(F)F)N3CC2)=O)=C1	IMPURITY	DCTI-C-3317	(E)-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)but-2-en-1-one	1253056-18-6	NA	C16H12F6N4O	390.29
2942		Sitagliptin lactose impurity	OC[C@H]1O[C@H]([C@@H]([C@H]([C@H]1O)O)O)O[C@H]2[C@@H]([C@H](C(O[C@@H]2CO)N[C@H](CC(C=C3F)=C(F)C=C3F)CC(N4CCN5C(C4)=NN=C5C(F)(F)F)=O)O)O	Metabolite	DCTI-C-3783	(3R)-3-(((3R,4R,5S,6R)-3,4-dihydroxy-6-(hydroxymethyl)-5-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)amino)-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one	NA	Sitagliptin lactose Adduct(MIXTURE OF ISOMERS) ;Sitagliptin lactose reaction impurity	C28H35F6N5O11	731.6
2943		(S)- Sitagliptin phosphate	O=P(O)(O)O.O=C(N1CC2=NN=C(C(F)(F)F)N2CC1)C[C@@H](N)CC3=CC(F)=C(F)C=C3F	Impurity	DCTI-C-3617	(S)-3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one phosphate	823817-58-9	Sitagliptin ep imp a phospate	C16H12F6N4O	390.29
2944		Sofosbuvir D-alaninate R,S Isomer	O=[P@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(NC3=O)=O)[C@@](F)(C)[C@@H]2O)N[C@H](C)C(OC(C)C)=O	impurity	DCTI-C-2248	isopropyl ((S)-(((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	1496552-28-3	NA	C22H29FN3O9P	529.46

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2945	Sofosbuvir	D-Alanine Sofosbuvir	C[C@H](C(OC(C)C)=O)NP(OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N(C=CC(N3)=O)C3=O)[C@](C)(F)[C@@H]2O)=O	Impurity	DCTI-C-2268	isopropyl ((((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	1064684-71-4	Sofosbuvir impurity 19; mixture of isomers of phosporous	C22H29FN3O9P	529.46
2946		Sofosbuvir Isomer 3	O=[P@@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(NC3=O)=O)[C@@](F)(C)[C@@H]2O)N[C@H](C)C(OC(C)C)=O	impurity	DCTI-C-2250	isopropyl ((R)-(((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-D-alaninate	1496552-16-9	Sofosbuvir D-alaninate R,R-Isomer.	C22H29FN3O9P	529.46
2947		Sofusuvir Impurity	O=C(C=CN1[C@@H]2O[C@H](COC(C3=CC=CC=C3)=O)[C@@H](OC(C4=CC=CC=C4)=O)[C@]2(OC(C5=CC=CC=C5)=O)C)NC1=O	impurity	DCTI-C-1516	(2R,3R,4R,5R)-5-((benzoyloxy)methyl)-2-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-3-methyltetrahydrofuran-3,4-diyl dibenzoate	23643-36-9	2',3',5'-Tri-O-benzoyl-2'-C-methyluridine; Uridine, 2'-C-methyl-, 2',3',5'-tribenzoate	C31H26N2O9	570.55
2948		Sofosbuvir L-alanitate (Mixture of Diasteriomers)	C[C@H](NP(OC[C@@H]1[C@@H](O)[C@@](C)(F)[C@H](N2C=CC(NC2=O)=O)O1)(OC3=CC=CC=C3)=O)C(OC(C)C)=O	Impurity	DCTI-C-2529	isopropyl ((((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	1064684-44-1	NA	C22H29FN3O9P	529.46

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2949		Sofosbuvir ethyl analog (mixture of isomers)	O=P(N[C@@H](C)C(OCC)=O)(OC[C@H]1O[C@@H](N2C=CC(NC2=O)=O)[C@@](F)(C)[C@@H]1O)OC3=CC=CC=C3	IMPURITY	DCTI-C-2714	ethyl ((((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	1064684-30-5	Ethyl sofosbuvir, Sofosbuvir O-Desisopropyl O-Ethyl Este, Sofosbuvir IP Impurity E.	C21H27FN3O9P	515.43
2950		Sofosbuvir (R)-Phosphate	CC(OC([C@H](C)N[P@](OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N(C(N3)=O)C=CC3=O)[C@](C)(F)[C@@H]2O)=O)=O)C	Impurity	DCTI-C-2782	isopropyl ((R)-(((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate	1190308-01-0	Sofosbuvir IP Impurity A; Sofosbuvir Impurity 19; Sofosbuvir (2R)-methyl impurity; propan-2-yl 2-[[[5-(2,4-dioxopyrimidin-1-yl)-4-fluoro-3-hydroxy-4-methyloxolan-2-yl]methoxy-phenoxyphosphoryl]amino] propanoate; Sofosbuvir L-alanitate (Mixture of Diasteriomers)	C22H29FN3O9P	529.46
2951		Sofosbuvir impurity F	CC(C)OC([C@H](C)NP(O[C@@H]1[C@H](O[C@@H](N2C(NC(C=C2)=O)=O)[C@@]1(F)C)COP(OC3=CC=CC=C3)(N[C@@H](C)C(OC(C)C)=O)=O)(OC4=CC=CC=C4)=O)=O	Impurity	DCTI-C-2528	isopropyl ((((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-2-((((((S)-1-isopropoxy-1-oxopropan-2-yl)amino)(phenoxy)phosphoryl)oxy)methyl)-4-methyltetrahydrofuran-3-yl)oxy)(phenoxy)phosphoryl)-L-alaninate	NA	Sofosbuvir Metabolites	C34H45FN4O13P2	798.69
2952	**Solifenacin**	Solifenacin Impurity	OC1C2=CC=CC=C2C(C3=CC=CC=C3)N(C(OC4C(CC5)CCN5C4)=O)C1	metabolite	DCTI-C-102	quinuclidin-3-yl 4-hydroxy-1-phenyl-3,4-dihydroisoquinoline-2(1H)-carboxylate	936943-64-5	NA	C23H26N2O3	378.47
2953		Sorafenib Impurity-D	O=C(NC)C1=CC(OC2=CC=C(NC(OC(C)C)=O)C=C2)=CC=N1	impurity	DCTI-C-1305	isopropyl (4-((2-(methylcarbamoyl)pyridin-4-yl)oxy)phenyl)carbamate	2206827-14-5	Sorafenib Impurity 10, Sorafenib Related Compound 6	C17H19N3O4	329.36
2954		Sorafenib Impurity-B	[H]C(NC1=CC=C(OC2=CC(C(NC)=O)=NC=C2)C=C1)=O	impurity	DCTI-C-1306	4-(4-formamidophenoxy)-N-methylpicolinamide	2004659-84-9	Sorafenib Impurity 29, Sorafenib Related Compound 12	C14H13N3O3	271.28

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2955	Sorafenib	Sorafenib Impurity-E	O=C(NC1=CC=C(OC2=CC=NC(C(NC)=O)=C2)C=C1)NC3=CC=C(OC4=CC(C(NC)=O)=NC=C4)C=C3	impurity	DCTI-C-1307	4,4'-(((carbonylbis(azanediyl))bis(4,1-phenylene))bis(oxy))bis(N-methylpicolinamide)	284670-98-0	Sorafenib related compound 15	C27H24N6O5	512.53
2956		Sorafenib Impurity-F	O=C(NC1=CC=CC(C(F)(F)F)=C1)NC2=CC=C(OC3=CC(C(NC)=O)=NC=C3)C=C2	impurity	DCTI-C-1308	N-methyl-4-(4-(3-(3-(trifluoromethyl)phenyl)ureido)phenoxy) picolinamide	1285533-84-7	Sorafenib related compound 3, Sorafenib Deschloro Impurity, Sorafenib Impurity 6	C21H17F3N4O3	430.39
2957		Sorafenib Impurity	O=C(NC)C1=NC=CC(OC2=CC=C(N)C=C2)=C1	impurity	DCTI-C-1517	4-(4-Aminophenoxy)-N-methylpicolinamide	284462-37-9	NA	C13H13N3O2	243.27
2958		Sorafenib N-Oxide	CNC(C1=CC(OC2=CC=C(NC(NC3=CC(C(F)(F)F)=C(Cl)C=C3)=O)C=C2)=CC=N1=O)=O	metabolite	DCTI-C-1079	4-(4-(3-(4-chloro-3-(trifluoromethyl)phenyl)ureido)phenoxy) -2-(methylcarbamoyl)pyridine 1-oxide	583840-03-3	BAY 67-3472	C21H16ClF3N4O4	480.82
2959		Sorafenib Impurity 6	CCOC(NC1=CC=C(OC2=CC=NC(C(NC)=O)=C2)C=C1)=O	Impurity	DCTI-C-2539	ethyl (4-((2-(methylcarbamoyl)pyridin-4-yl)oxy)phenyl)carbamate	2206827-12-3	Carbamic acid, N-[4-[[2-[(methylamino)carbonyl]-4-pyridinyl]oxy]phenyl]-, ethylester (ACI)	C16H17N3O4	315.33
2960		N-Desmethyl Sorafenib	ClC1=C(C(F)(F)F)C=C(NC(NC2=CC=C(OC3=CC(C(N)=O)=NC=C3)C=C2)=O)C=C1	impurity	DCTI-C-1574	4-(4-(3-(4-chloro-3-(trifluoromethyl)phenyl)ureido)phenoxy) picolinamide	284461-74-1	Sorafenib related compound 14	$C_{20}H_{14}ClF_3N_4O_3$	450.8

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2961		Sorafenib dimethyl ester dimer impurity	COC(C1=NC=CC(OC2=CC=C(NC(NC3=CC=C(OC4=CC=NC(C(OC)=O)=C4)C=C3)=O)C=C2)=C1)=O	impurity	DCTI-C-1575	dimethyl 4,4'-(((carbonylbis(azanediyl))bis(4,1-phenylene))bis(oxy))dipicolinate	NA	Sorafenib dimethyl ester impurity	$C_{27}H_{22}N_4O_7$	514.49
2962		Sorafenib impurity 8	O=C(NC1=CC(C(F)(F)F)=C(Cl)C=C1)NC2=CC(C(F)(F)F)=C(Cl)C=C2	impurity	DCTI-C-1576	1,3-bis(4-chloro-3-(trifluoromethyl)phenyl)urea	370-50-3	Sorafenib impurity I, Flucofuron	$C_{15}H_8Cl_2F_6N_2O$	417.13
2963		Sorafenib impurity C	O=C(NC)C1=NC=CC(OC2=CC=C(NC(NC3=CC=C(OC4=CC=NC(C(OC)=O)=C4)C=C3)=O)C=C2)=C1	impurity	DCTI-C-1577	methyl 4-(4-(3-(4-((2-(methylcarbamoyl)pyridin-4-yl)oxy)phenyl)ureido)phenoxy)picolinate	2204442-52-2	NA	$C_{27}H_{23}N_5O_6$	513.51
2964		Sorafenib impurity H	O=C(NC1=CC=C(OC2=CC=NC(C(NC)=O)=C2)C=C1)NC3=C(Cl)C(C(F)(F)F)=CC=C3	impurity	DCTI-C-1578	4-(4-(3-(2-chloro-3-(trifluoromethyl)phenyl)ureido)phenoxy)-N-methylpicolinamide	1431697-81-2	4-Deschloro-2-chloro-Sorafenib, Sorafenib related compound 20, Sorafenib 2-chloro isomer, Sorafenib 2-chloro analog.	$C_{21}H_{16}ClF_3N_4O_3$	464.83
2965	**Sotalol**	N-Nitroso-Sotalol	CC(N(N=O)CC(C1=CC=C(C=C1)NS(C)(=O)=O)O)C	NDSRI	DCTI-C-3744	N-(4-(1-hydroxy-2-(isopropyl(nitroso)amino)ethyl)phenyl)methanesulfonamide	134720-07-3	N-Nitroso-sotalol (Mixture of Isomers)	C12H19N3O4S	301.36
2966		Sotorasib Isomer-1	O=C(C=C)N1CCN(C2=NC(N(C3=C(C(C)C)N=CC=C3C)C4=NC(C5=C(O)C=CC=C5F)=C(F)C=C42)=O)[C@@H](C)C1	impurity	DCTI-C-2102	4-((S)-4-acryloyl-2-methylpiperazin-1-yl)-6-fluoro-7-(2-fluoro-6-hydroxy phenyl)-1-(2-isopropyl-4-methylpyridin-3-yl) pyrido[2,3-d] pyrimidin-2(1H)-one.	2252403-56-6	NA	C30H30F2N6O3	560.61
2967	**Sotorasib**	Sotorasib Isomer-3	O=C1N(C2=C(C)C=CN=C2C(C)C)C3=NC(C4=C(O)C=CC=C4F)=C(F)C=C3C(N5[C@H](C)CN(C(C=C)=O)CC5)=N1	impurity	DCTI-C-2251	4-((R)-4-acryloyl-2-methylpiperazin-1-yl)-6-fluoro-7-(2-fluoro-6-hydroxyphenyl)-1-(2-isopropyl-4-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one	NA	NA	C30H30F2N6O3	560.61

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2968		Sotorasib Isomer-4	O=C(C=C)N1CCN(C2=NC(N(C3=C(C)C=CN=C3C(C)C)C4=NC(C5=C(O)C=CC=C5F)=C(F)C=C42)=O)[C@@H](C)C1	impurity	DCTI-C-2252	4-((S)-4-acryloyl-2-methylpiperazin-1-yl)-6-fluoro-7-(2-fluoro-6-hydroxyphenyl)-1-(2-isopropyl-4-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one	NA	NA	C30H30F2N6O3	560.61
2969		Sotorasib Isomer-2	O=C(C=C)N1CCN(C2=NC(N(C3=C(C(C)C)N=CC=C3C)C4=NC(C5=C(O)C=CC=C5F)=C(F)C=C42)=O)[C@H](C)C1	impurity	DCTI-C-2103	4-((R)-4-acryloyl-2-methylpiperazin-1-yl)-6-fluoro-7-(2-fluoro-6-hydroxy phenyl)-1-(2-isopropyl-4-methylpyridin-3-yl) pyrido[2,3-d] pyrimidin-2(1H)-one.	NA	NA	C30H30F2N6O3	560.61
2970		Sparfloxacin de-amino Impurity	O=C1C(C(O)=O)=CN(C2CC2)C3=C(F)C(N4C[C@@H](C)N[C@@H](C)C4)=C(F)C=C31	Impurity	DCTI-C-860	1-cyclopropyl-7-((3R,5S)-3,5-dimethylpiperazin-1-yl)-6,8-difluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid-rel-	103460-90-8	CP 104949	C19H21F2N3O3	377.39
2971		Sparfloxacin De-cyclopropyl Impurity	NC1=C2C(NC=C(C(O)=O)C2=O)=C(F)C(N3C[C@@H](C)N[C@@H](C)C3)=C1F	Impurity	DCTI-C-861	5-amino-7-((3R,5S)-3,5-dimethylpiperazin-1-yl)-6,8-difluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	NA	NA	C16H18F2N4O3	352.34
2972		Sparfloxacin Diamino Impurity	NC1=C2C(N(C3CC3)C=C(C(O)=O)C2=O)=C(F)C(N)=C1F.O=CC(F)(F)F	Impurity	DCTI-C-862	5,7-diamino-1-cyclopropyl-6,8-difluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid-trifluoroacetate salt	NA	NA	C13H11F2N3O3 (Free Base) C15H11F5N3O4 (Salt)	295.25 (Free Base) 392.26 (Salt)

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2973	**Sparfloxacin**	Sparfloxacin Fluoro Impurity	O=C1C(C(O)=O)=CN(C2CC2)C3=C(F)C(F)=C(F)C(N)=C31	Impurity	DCTI-C-863	5-amino-1-cyclopropyl-6,7,8-trifluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	103772-14-1	NA	C13H9F3N2O3	298.22
2974		Sparfloxacin Benzyl amino Impurity	O=C(C1=CN(C2CC2)C3=C(C(NCC4=CC=CC=C4)=C(F)C(N5C[C@@H](C)N[C@@H](C)C5)=C3F)C1=O)O.O=C(C6=CN(C7CC7)C8=C(C(NCC9=CC=CC=C9)=C(F)C(N%10C[C@H](C)N[C@H](C)C%10)=C8F)C6=O)O	Impurity	DCTI-C-864	5-(benzylamino)-1-cyclopropyl-7-((3R,5S)-3,5-dimethylpiperazin-1-yl)-6,8-difluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid-rel-	NA	Sparfloxacin Impurity 6	C26H28F2N4O3	482.53
2975		Sparfloxacin Hydroxy Impurity	OC1=C2C(N(C3CC3)C=C(C(O)=O)C2=O)=C(F)C(N4C[C@@H](C)N[C@@H](C)C4)=C1F.OC5=C6C(N(C7CC7)C=C(C(O)=O)C6=O)=C(F)C(N8C[C@H](C)N[C@H](C)C8)=C5F	Impurity	DCTI-C-865	1-cyclopropyl-7-((3R,5S)-3,5-dimethylpiperazin-1-yl)-6,8-difluoro-5-hydroxy-4-oxo-1,4-dihydroquinoline-3-carboxylic acid-rel-	126458-22-8	Sparfloxacin Impurity 4	C19H21F2N3O4	393.39
2976	**Stiripentol**	Stiripentol tert-alcohol impurity	OC(C(C)(C)C)CCC1=CC=C2OCOC2=C1	Impurity	DCTI-C-3318	1-(benzo[d][1,3]dioxol-5-yl)-4,4-dimethylpentan-3-ol	106175-03-5	1-(1,3-Benzodioxol-5-yl)-4,4-dimethylpentan-3-ol	C14H20O3	236.31
2977	**Sulfamethoxazole**	Sulfamethoxazole hydroxylamine impurity	O=S(C1=CC=C(N)C=C1)(NC2=CC(C)=NO2)=O	Impurity	DCTI-C-3067	4-amino-N-(3-methylisoxazol-5-yl)benzenesulfonamide	17103-52-5	Isosulfamethoxazole; Sulfamethoxazole EP Impurity F; Sulfamethoxazole related impurity -3	C10H11N3O3S	253.28

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2978	**Sulpiride**	Sulpiride Impurity 9	O=C(C1=CC(S(=O)(N)=O)=CC=C1OC)NC2CN(CC)CCC2	Impurity	DCTI-C-3187	N-(1-ethylpiperidin-3-yl)-2-methoxy-5-sulfamoylbenzamide	51218-14-5	5-(Aminosulfonyl)-N-(1-ethyl-3-piperidinyl)-2-methoxybenzamide	C15H23N3O4S	341.43
2979		Sumatriptan Impurity-A	O=S(CC1=CC2=C(NC(CC3=CC4=C(NC=C4CCN(C)C)C=C3)=C2CCN(C)C)C=C1)(NC)=O	Impurity	DCTI-C-142	1-(3-(2-(dimethylamino)ethyl)-1-((3-(2-(dimethylamino)ethyl)-1H-indol-5-yl)methyl)-1H-indol-5-yl)-N-methylmethanesulfonamide	545338-89-4	NA	C27H37N5O2S	495.69
2980		Sumatriptan Succinate Impurity	O=S(CC1=CC=C2C(C(CCN(C)C)=C(CC3=CNC4=C3C=C(CS(=O)(NC)=O)C=C4)N2)=C1)(NC)=O	Impurity	DCTI-C-185	1-(3-(2-(dimethylamino)ethyl)-2-((5-((N-methylsulfamoyl)methyl)-1H-indol-3-yl)methyl)-1H-indol-5-yl)-N-methylmethanesulfonamide	NA	NA	C25H33N5O4S2	531.69
2981		Sumatriptan EP Impurity E	O=S(CC1=CC2=C(C(CCN)=CN2)C=C1)(NC)=O	Impurity	DCTI-C-1766	1-(3-(2-aminoethyl)-1H-indol-6-yl)-N-methylmethanesulfonamide	NA	Didesmethyl Sumatriptan	C12H17N3O2S	267.35
2982		Sumatriptan N-oxide	O=S(CC1=CC=C2C(C(CC[N+](C)([O-])C)=CN2)=C1)(NC)=O	Impurity	DCTI-C-246	N,N-dimethyl-2-(5-((N-methylsulfamoyl)methyl)-1H-indol-3-yl)ethan-1-amine oxide	212069-94-8	GR 112504; Sumatriptan EP Impurity D	C14H21N3O3S	311.4

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2983	Sumatriptan	Sumatriptan Impurity 2	O=S(CC1=CC2=C(NC3C2(O)CC[N+]3(C)C)C=C1)(NC)=O.CC([O-])=O	Impurity	DCTI-C-277	3a-hydroxy-1,1-dimethyl-5-((N-methylsulfamoyl)methyl)-1,2,3,3a,8,8a-hexahydropyrrolo[2,3-b]indol-1-ium acetate	2760668-67-3 (Free Base)	NA	C14H22N3O3S+ (Free Base); C16H25N3O5S (Acetate Salt)	312.41 (Free Base); 371.45 (Acetate Salt)
2984		Sumatriptan Impurity 2 (3-Hydroxy-2-Oxo-sumatriptan)	O=C1NC2=CC=C(CS(=O)(NC)=O)C=C2C1(CCN(C)C)O	impurity	DCTI-C-1106	1-(3-(2-(dimethylamino)ethyl)-3-hydroxy-2-oxoindolin-5-yl)-N-methylmethanesulfonamide	2250254-19-2	3-Hydroxy-2-Oxo-sumatriptan	C14H21N3O4S	327.4
2985		Sumatriptan impurity-F	O=S(CC1=CC(C(CCNC2)=C2N3)=C3C=C1)(NC)=O	impurity	DCTI-C-1169	N-methyl-1-(2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indol-6-yl)methanesulfonamide	2074615-63-5	NA	C13H17N3O2S	279.36
2986		Indole Acetic Acid Analogue of Sumatriptan. Formate salt	O=C(O)CC1=CNC2=C1C=C(CS(=O)(NC)=O)C=C2.OC=O	metabolite	DCTI-C-2740	2-(5-((N-methylsulfamoyl) methyl)-1H-indol-3-yl)acetic acid. Formate Salt	103628-44-0 (Free Base)	Sumatriptan carboxylic acid impurity, GR 49336	C12H14N2O4S (Free Base); C13H16N2O6S (Formate Salt)	282.31 (Free Base); 328.34 (Formate Salt)
2987		Sumatriptan Metabolite	O=S(CC1=CC2=C(NC=C2CCN(C)C)C=C1)(N)=O	metabolite	DCTI-C-2846	(3-(2-(dimethylamino)ethyl)-1H-indol-5-yl)methanesulfonamide	88919-50-0	NA	C13H19N3O2S	281.37
2988		Sumatriptan Metabolite Ester Glucuronide of GR49336	O=C(OC1C(O)C(O)C(O)C(C(O)=O)O1)CC2=CNC3=C2C=C(CS(=O)(NC)=O)C=C3	metabolite	DCTI-C-2862	3,4,5-trihydroxy-6-(2-(5-((N-methylsulfamoyl)methyl)-1H-indol-3-yl)acetoxy)tetrahydro-2H-pyran-2-carboxylic acid	151751-50-7	GR49336	C18H22N2O10S	458.44
2989		N-Nitroso-Desmethyl-Sumatriptan Impurity	O=S(CC1=CC2=C(NC=C2CCN(C)N=O)C=C1)(NC)=O	NDSRI	DCTI-C-3367	N-methyl-1-(3-(2-(methyl(nitroso)amino)ethyl)-1H-indol-5-yl)methanesulfonamide	NA	NA	C13H18N4O3S	310.37

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
2990		Sumatriptan Unknown Impurity-1	O=S(CC1=CC2=C(NC=C2C=O)C=C1)(NC)=O	impurity	DCTI-C-2311	1-(3-formyl-1H-indol-5-yl)-N-methylmethanesulfonamide	NA	NA	C11H12N2O3S	252.29
2991		Sumatriptan inhouse impurity-2	O=S(CC1=CC2=C(NC=C2C3[N+](C)(C)CCC4=C3NC5=C4C=C(CS(=O)(NC)=O)C=C5)C=C1)(NC)=O	impurity	DCTI-C-2514	2,2-dimethyl-6-((N-methylsulfamoyl)methyl)-1-(5-((N-methylsulfamoyl)methyl)-1H-indol-3-yl)-2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indol-2-ium	NA	NA	C25H32N5O4S2+	530.68
2992	**Sunitinib**	Sunitinib N-Oxide	O=C1NC2=CC=C(F)C=C2/C1=C/C3=C(C)C(C(NCC[N+](CC)([O-])CC)=O)=C(C)N3	metabolite	DCTI-C-1119	(E)-N,N-diethyl-3-((5-((5-fluoro-2-oxoindolin-3-ylidene)methyl)-2,4-dimethyl-1H-pyrrol-3-yl)amino)-3-oxopropan-1-amine oxide	356068-99-0	NA	$C_{22}H_{27}FN_4O_3$	414.21
2993		N-(2-(ethyl(nitroso)amino)ethyl)-2,4-dimethyl-1H-pyrrole-3-carboxamide	O=C(NCCN(N=O)CC)C1=C(C)NC=C1C	NDSRI	DCTI-C-2593	N-(2-(ethyl(nitroso)amino)ethyl)-2,4-dimethyl-1H-pyrrole-3-carboxamide	NA	NA	C11H18N4O2	238.29
2994		N-(2-aminoethyl)-N-ethylnitrous amide	CCN(N=O)CCN.O=CC(F)(F)F	NDSRI	DCTI-C-2586	N-(2-aminoethyl)-N-ethylnitrous amide	NA	NA	C4H11N3O (Free Base); C6H11F3N3O2 (TFA Salt)	117.15 (Free Base); 214.17 (TFA Salt)
2995		(Z)-N-(2-(ethyl(nitroso)amino)ethyl)-5-((5-fluoro-2-oxoindolin-3-ylidene)methyl)-2,4-dimethyl-1H-pyrrole-3-carboxamide	O=C(NCCN(N=O)CC)C1=C(C)NC(/C=C2C(C=C(F)C=C3)=C3NC/2=O)=C1C	NDSRI	DCTI-C-2467	(Z)-N-(2-(ethyl(nitroso)amino)ethyl)-5-((5-fluoro-2-oxoindolin-3-ylidene)methyl)-2,4-dimethyl-1H-pyrrole-3-carboxamide	NA	Sunitinib N-Monodesethyl Nitroso Impurity	C20H22FN5O3	399.43
2996		N-(2-(ethyl(nitroso)amino)ethyl)-5-formyl-2,4-dimethyl-1H-pyrrole-3-carboxamide	O=C(NCCN(N=O)CC)C1=C(C)NC(C=O)=C1C	NDSRI	DCTI-C-2468	N-(2-(ethyl(nitroso)amino)ethyl)-5-formyl-2,4-dimethyl-1H-pyrrole-3-carboxamide	NA	Sunitinib Intermediate Nitroso impurity 2	C12H18N4O3	266.3
2997		tert-butyl 4-((2-(ethyl(nitroso)amino)ethyl) carbamoyl)-3,5-dimethyl-1H-pyrrole-2-carbo xylate	O=C(NCCN(N=O)CC)C1=C(C)NC(C(OC(C)(C)C)=O)=C1C	NDSRI	DCTI-C-2469	tert-butyl 4-((2-(ethyl(nitroso)amino)ethyl)carbamoyl)-3,5-dimethyl-1H-pyrrole-2-carboxylate	NA	Sunitinib Intermediate Nitroso Impurity 1	C16H26N4O4	338.41

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2998		Sunitinib Impurity 1	CC1=C(C(NCC)=O)C(C)=C(/C=C(C2=CC=C(F)C=C2N3)\C3=O)N1	Impurity	DCTI-C-3755	(Z)-N-ethyl-5-((6-fluoro-2-oxoindolin-3-ylidene)methyl)-2,4-dimethyl-1H-pyrrole-3-carboxamide	1467015-10-6	NA	C18H18FN3O2	327.35
2999		Sunitinib Amide Impurity	CC1=C(C(N)=O)C(C)=C(/C=C(C2=CC=C(F)C=C2N3)\C3=O)N1	Impurity	DCTI-C-3760	(Z)-5-((6-fluoro-2-oxoindolin-3-ylidene)methyl)-2,4-dimethyl-1H-pyrrole-3-carboxamide	1186651-51-3	5-[(Z)-(5-Fluoro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-carboxamide	C16H14FN3O2	299.3
3000		1-(4-aminophenoxy)-3-ethoxypropane-2-ol	OC(COCC)COC1=CC=C(N)C=C1	Impurity	DCTI-C-2547	1-(4-aminophenoxy)-3-ethoxypropan-2-ol	94056-98-1	Suplatast Impurity D2	C11H17NO3	211.26
3001		N-(4-(3-ethoxy-2-hydroxypropoxy) phenyl)-3-(methylthio)propanamide	OC(COCC)COC1=CC=C(NC(CCSC)=O)C=C1	Impurity	DCTI-C-2548	N-(4-(3-ethoxy-2-hydroxypropoxy)phenyl)-3-(methylthio)propanamide	94057-02-0	Suplatast Impurity D3 (M-1-ch3sh)	C15H23NO4S	313.41
3002		N-(4-(3-ethoxy-2-hydroxypropoxy)phenyl) acrylamide	OC(COCC)COC1=CC=C(NC(C=C)=O)C=C1	Impurity	DCTI-C-2546	N-(4-(3-ethoxy-2-hydroxypropoxy)phenyl)acrylamide	145133-19-3	Suplatast Impurity D1	C14H19NO4	265.31
3003		N-(4-(3-ethoxy-2-hydroxypropoxy)phenyl)-3-hydroxypropanamide	OC(COCC)COC1=CC=C(NC(CCO)=O)C=C1	Impurity	DCTI-C-2549	N-(4-(3-ethoxy-2-hydroxypropoxy)phenyl)-3-hydroxypropanamide	NA	Suplatast Impurity D-4	C14H21NO5	283.32
3004	**Suplatast**	Suplatast 2-methoxy p-toluenesulfonate Impurity	O=C(CC[S+](C)C)NC1=CC=C(OCC(COCC)OC)C=C1.CC2=CC=C(S(=O)([O-])=O)C=C2	Impurity	DCTI-C-2853	(3-((4-(3-ethoxy-2-methoxypropoxy)phenyl)amino)-3-oxopropyl)dimethyl sulfonium 4-methylbenzenesulfonate	NA	NA	C17H28NO4S+ (without salt)C24H35S2NO7(p-toluenesulfonate salt)	342.47 (without salt)513.66 (p-toluenesulfonate salt)
3005		Suplatast Dimer Impurity 2	O=C(CC[S+](C)C)NC1=CC=C(OCC(COCC(O)COC2=CC=C(NC(CC[S+](C)C)=O)C=C2)O)C=C1.CC3=CC=C(S(=O)([O-])=O)C=C3.CC4=CC=C(S(=O)([O-])=O)C=C4	Impurity	DCTI-C-2906	(((((oxybis(2-hydroxypropane-3,1-diyl))bis(oxy))bis(4,1-phenylene))bis(azanediyl))bis(3-oxopropane-3,1-diyl))bis(dimethylsulfonium) 4-methylbenzenesulfonate	NA	(RS)-bis[3-[4-[3-(dimethylsulfonio)propionyl amino] phenoxy]-2-hydroxypropyl]ether-di-p-toluene sulfonate	C42H56N2O13S4 (p-toluenesulfonate salt) ; C28H42N2O7S22+ (without salt)	582.77(without salt); 925.15 (p-toluenesulfonate salt)
3006		Suplatast Dimer Impurity 1	O=C(CC[S+](C)C)NC1=CC=C(OCC(COC2=CC=C(NC(CC[S+](C)C)=O)C=C2)O)C=C1.CC3=CC=C(S(=O)([O-])=O)C=C3.CC4=CC=C(S(=O)([O-])=O)C=C4	Impurity	DCTI-C-2878	(((((2-hydroxypropane-1,3-diyl)bis(oxy))bis(4,1-phenylene))bis(azanediyl))bis(3-oxopropane-3,1-diyl))bis(dimethylsulfonium) 4-methylbenzenesulfonate	NA	NA	C25H36N2O5S22+ (without salt)C39H50N2O11S4 (p-toluenesulfonate salt)	508.69 (without salt)851.07 (p-toluenesulfonate salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3007	**Tadalafil**	Tadalafil bis(2-aminopropanoate) dimer impurity	N[C@H](CC1=C(C(C)C2=C(C[C@@H](N)C(OC)=O)C3=CC=CC=C3N2)NC4=CC=CC=C41)C(OC)=O.O=CC(F)(F)F	impurity	DCTI-C-2253	dimethyl 3,3'-(ethane-1,1-diylbis(1H-indole-2,3-diyl))(2R,2'R)-bis(2-aminopropanoate) bis(2,2,2-trifluoroacetate)	NA	NA	C26H30N4O4 (Free base) C30H32F6N4O8 (TFA salt)	462.55 (Free base) 690.60 (TFA salt)
3008	**Tamoxifen**	Tamoxifen N-Oxide	CC/C(C1=CC=CC=C1)=C(C2=CC=C(OCC[N+](C)([O-])C)C=C2)\C3=CC=CC=C3	impurity	DCTI-C-1278	(Z)-2-(4-(1,2-diphenylbut-1-en-1-yl)phenoxy)-N,N-dimethylethan-1-amine oxide	NA	NA	C26H29NO2	387.52
3009		Z-Chlorolefin	CC/C(C1=CC=CC=C1)=C(C2=CC=C(OCCCl)C=C2)\C3=CC=CC=C3	impurity	DCTI-C-1279	(Z)-(1-(4-(2-chloroethoxy)phenyl)but-1-ene-1,2-diyl)dibenzene	97818-83-2	NA	C24H23ClO	362.9
3010		Tamoxifen Impurity A	CC/C(C1=CC=CC=C1)=C(C2=CC=C(OCCN(C)C)C=C2)/C3=CC=CC=C3.O=CC(F)(F)F	impurity	DCTI-C-1317	(E)-2-(4-(1,2-diphenylbut-1-en-1-yl)phenoxy)-N,N-dimethylethan-1-amine TFA Salt	NA	(E)-Tamoxifen; cis-Tamoxifen	C26H29NO (Free base) C28H30F3NO3 (TFA Salt)	371.52 (Free base) 485.54 (TFA Salt)
3011		Bis-tamoxifen	CC/C(C1=CC=CC=C1)=C(C2=CC=CC=C2)/C3=CC=C(OCCN(CCOC4=CC=C(/C(C5=CC=CC=C5)=C(CC)\C6=CC=CC=C6)C=C4)C)C=C3	impurity	DCTI-C-1280	2-(4-((Z)-1,2-diphenylbut-1-en-1-yl)phenoxy)-N-(2-(4-((Z)-1,2-diphenylbut-1-en-1-yl)phenoxy)ethyl)-N-methylethan-1-amine	1346606-51-6	Tamoxifen Dimer	C49H49NO2	683.94

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3012		Tamoxifen Impurity D	CN(C)CCOC1=CC=C(/C(C2=CC=CC=C2)=C(C3=CC=CC=C3)\C)C=C1	impurity	DCTI-C-1417	(E)-2-(4-(1,2-diphenylprop-1-en-1-yl)phenoxy)-N,N-dimethylethan-1-amine	15917-50-7	Methyl homologue of Tamoxifen (E/Z mixture)	C25H27NO	357.5
3013		Tamoxifen Impurity F	CC/C(C1=CC=CC=C1)=C(C2=CC=C(OCCNC)C=C2)\C3=CC=CC=C3	metabolite	DCTI-C-1281	(Z)-2-(4-(1,2-diphenylbut-1-en-1-yl)phenoxy)-N-methylethan-1-amine	31750-48-8	N-Desmethyl Tamoxifen; N-Demethyltamoxifen; ICI 55548	C25H27NO	357.5
3014		N-Nitroso Desmethyl Tamoxifen(Mixture of isomers)	CN(CCOC1=CC=C(/C(C2=CC=CC=C2)=C(C3=CC=CC=C3)/CC)C=C1)N=O	NDSRI	DCTI-C-3556	(Z)-N-(2-(4-(1,2-diphenylbut-1-en-1-yl)phenoxy)ethyl)-N-methylnitrous amide	NA	N-Nitroso Tamoxifen EP Impurity F	C25H26N2O2	386.5
3015	**Tamsulosin**	N-Nitroso Tamsulosin Impurity	CCOC1=C(C=CC=C1)OCCN([C@@H](CC2=CC(S(N)(=O)=O)=C(C=C2)OC)C)N=O	NDSRI	DCTI-C-2704	(R)-5-(2-((2-(2-ethoxyphenoxy)ethyl)(nitroso)amino)propyl)-2-methoxybenzene sulfonamide	NA	Tamsulosin nitroso Impurity	C20H27N3O6S (Free base)	437.51 (Free base)
3016	**Tapentadol**	Tapentadol EP Impurity E	COC1=CC=CC([C@H](CC)[C@@H](C)CN(C)C)=C1.Cl	impurity	DCTI-C-1833	(2R,3R)-3-(3-methoxyphenyl)-N,N,2-trimethylpentan-1-amine hydrochloride	NA	Tapentadol Impurity E	(free base): C15H25NO (Salt): C15H26ClNO	(Free base): 235.37 (Salt): 271.82
3017		Hydroxy Tapentadol N-Oxide	OC1=CC=CC(C(O)(CC)C(C)C[N+](C)([O-])C)=C1	impurity	DCTI-C-1834	3-hydroxy-3-(3-hydroxyphenyl)-N,N,2-trimethylpentan-1-amine oxide	NA	Tapentadol DP Impurity 1	C14H23NO3	253.34
3018		3-(3-methoxyphenyl)-N,N,2-trimethylpentan-1-amine	COC1=CC=CC(C(CC)C(C)CN(C)C)=C1	impurity	DCTI-C-2209	3-(3-methoxyphenyl)-N,N,2-trimethylpentan-1-amine	809282-11-9	γ-Ethyl-3-methoxy-N,N,β-trimethylbenzenepropanamine	C15H25NO	235.37

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3019		Tapentadol Impurity A	CC[C@@H]([C@@H](C)CN(C)C)C1=CC(O)=CC=C1.Cl	Impurity	DCTI-C-668	3-((2R,3S)-1-(dimethylamino)-2-methylpentan-3-yl)phenol hydrochloride	1282502-22-0	NA	C14H24ClNO (HCl Salt) C14H23NO (Free base)	257.80 (HCl Salt) 221.34 (Free base)
3020	**Tetracycline**	4 Epitetracycline	[H][C@]12C[C@]3([C@H](C(O)=C(C([C@]3(C(O)=C1C(C4=C(C=CC=C4O)[C@@]2(C)O)=O)O)=O)C(N)=O)N(C)C)[H].OC(C)=O	Impurity	DCTI-C-2987	(4R,4aS,5aS,6S,12aS)-4-(dimethylamino)-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide acetate	79-85-6 (Free base)	NA	C22H24N2O8 (Free base); C24H28N2O10 (Acetate Salt)	444.44 (Free base); 504.49 (Acetate Salt)
3021	**Tegoprazan**	Tegoprazan R-Isomer Impurity	FC1=CC(F)=C([C@H](OC2=CC(C(N(C)C)=O)=CC3=C2NC(C)=N3)CCO4)C4=C1	impurity	DCTI-C-2179	(R)-7-((5,7-difluorochroman-4-yl)oxy)-N,N,2-trimethyl-1H-benzo[d]imidazole-5-carboxamide	942195-56-4	7-[[(4R)-5,7-Difluoro-3,4-dihydro-2H-1-benzopyran-4-yl]oxy]-N,N,2-trimethyl-1H-benzimidazole-5-carboxamide.	C20H19F2N3O3	387.39
3022		3-(3,5-difluorophenoxy)propan-1-ol	FC1=CC(OCCCO)=CC(F)=C1	Impurity	DCTI-C-2530	3-(3,5-difluorophenoxy)propan-1-ol	1111086-20-4	Tegoprazan Impurity 11	C9H10F2O2	188.17
3023		5,7-difluorochroman-4-ol	FC1=C2C(OCCC2O)=CC(F)=C1	Impurity	DCTI-C-2531	5,7-difluorochroman-4-ol	917248-51-2	NA	C9H8F2O2	186.16
3024		5,7-difluorochroman-4-one	FC1=C2C(OCCC2=O)=CC(F)=C1	Impurity	DCTI-C-2532	5,7-difluorochroman-4-one	844648-22-2	Tegoprazan Impurity 7	C9H6F2O2	184.14
3025		3-(3,5-difluorophenoxy)propanoic acid	O=C(O)CCOC1=CC(F)=CC(F)=C1	Impurity	DCTI-C-2533	3-(3,5-difluorophenoxy)propanoic acid	844648-19-7	Tegoprazan IMP 12	C9H8F2O3	202.16

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3026	Temozolomide	Temozolomide Impurity 1	NC(C(C(N)=N)/N=N/C1=CC=CC=C1)=O>>NC(C(/N=N/C2=CC=CC=C2)=C(N)/N)=O	Impurity	DCTI-C-1702	3,3-diamino-2-(phenyldiazenyl)acrylamide compound with 3-amino-3-imino-2-(phenyldiazenyl)propanamide	NA	NA	C9H11N5O	205.22
3027		4-[(β-D-galactopyranoyl-(1-4)-β-D-glucopyranosyl) amino)-1 H-imidazole-4-carboxamide(AIC-lactose)	NC(C1=C(NC2C(O)C(O)C(OC3C(O)C(O)C(O)C(CO)O3)C(CO)O2)NC=N1)=O	Impurity	DCTI-C-3310	5-((3,4-dihydroxy-6-(hydroxymethyl)-5-((3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)amino)-1H-imidazole-4-carboxamide	NA	(AIC-lactose) for Temozolomide	C16H26N4O11	450.4
3028	Teneligliptin	Teneligliptin (2R,4S)-isomer	CC1=NN(C2=CC=CC=C2)C(N3CCN([C@H]4C[C@H](C(N5CCSC5)=O)NC4)CC3)=C1	Impurity	DCTI-C-598	((2R,4S)-4-(4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazin-1-yl)pyrrolidin-2-yl)(thiazolidin-3-yl)methanone	NA	NA	C22H30N6OS	426.58
3029		Teneligliptin (2S,4R)-isomer	CC1=NN(C2=CC=CC=C2)C(N3CCN([C@@H]4C[C@@H](C(N5CCSC5)=O)NC4)CC3)=C1	Impurity	DCTI-C-599	((2S,4R)-4-(4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazin-1-yl)pyrrolidin-2-yl)(thiazolidin-3-yl)methanone	1404559-15-4	NA	C22H30N6OS	426.58
3030		Teneligliptin (2R,4R)-Isomer	CC1=NN(C2=CC=CC=C2)C(N3CCN([C@@H]4C[C@H](C(N5CCSC5)=O)NC4)CC3)=C1	Impurity	DCTI-C-657	((2R,4R)-4-(4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazin-1-yl)pyrrolidin-2-yl)(thiazolidin-3-yl)methanone	1404559-17-6	NA	C22H30N6OS	426.58

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3031		1-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazine	CC1=NN(C2=CC=CC=C2)C(N3CCNCC3)=C1	Impurity	DCTI-C-739	1-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazine	401566-79-8	Teneligliptin Intermediate	C14H18N4	242.33
3032		S-Tenofovir Disoproxil Fumarate	NC1=C2C(N(C[C@H](C)OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)C=N2)=NC=N1.OC(/C=C/C(O)=O)=O	Impurity	DCTI-C-089	(S)-(((((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphoryl)bis(oxy))bis(methylene) diisopropyl bis(carbonate) fumarate	1432630-26-6	GS 4331-05	C23H34N5O14P (Fumerate Salt) C19H30N5O10P (Free base)	635.52 (Fumerate Salt) 519.45 (Free base)
3033		(R)-9-[2-(Diethylphosphonomethoxy)propyl]	NC1=NC=NC2=C1N=CN2C[C@@H](C)OCP(OCC)(OCC)=O	impurity	DCTI-C-2104	diethyl (R)-(((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate	180587-75-1	(R)-9-[2-(Diethylphosphonomethoxy)propyl] Adenine Diethyl P-[[(1R)-2-(6-amino-9H-purin-9-yl)-1-methylethoxy]methyl]phosphonate (ACI) Phosphonic acid; [[(1R)-2-(6-amino-9H-purin-9-yl)-1-methylethoxy]methyl]-, diethyl ester (9CI)	C13H22N5O4P	343.32
3034		Tenofovir Disoproxil Impurity C	O=P(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)COCCN1C2=C(N=C1)C(N)=NC=N2	impurity	DCTI-C-2105	((((2-(6-amino-9H-purin-9-yl)ethoxy)methyl)phosphoryl)bis(oxy))bis(methylene) diisopropyl bis(carbonate)	365417-53-4	Tenofovir Impurity C; 2,4,6,8-Tetraoxa-5-phosphanonanedioic acid, 5-[[2-(6-amino-9H-purin-9-yl)ethoxy]methyl]-, bis(1-methylethyl) ester, 5-oxide (9CI).	C18H28N5O10P	505.42
3035		Tenofovir Alafenamide Dimer 1	CC(OC([C@@H](N[P@](CO[C@@H](CN1C=NC2=C(N=CN=C12)NCNC(N=CN=C34)=C4N=CN3C[C@@H](C)OC[P@@](N[C@@H](C)C(OC(C)C)=O)(OC5=CC=CC=C5)=O)C)(OC6=CC=CC=C6)=O)C)=O)C	impurity	DCTI-C-2180	isopropyl ((S)-(Phenoxy)((((R)-1-(6-((((9-((R)-2-(((S)-(((S)-1-isopropoxy-1-oxopropan-2-yl)amino)(phenoxy)phosphoryl)methoxy)propyl)-9H-purin-6-yl)amino)methyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphoryl)-L-alaninate	NA	Tenofovir Alafenamide Dimer impurity	C43H58N12O10P2	964.96

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3036		Tenofovir Alafenamide Dimer 2	CC(OC([C@@H](N[P@](CO[C@@H](CN1C=NC2=C(N=CN=C12)NCNC(N=CN=C34)=C4N=CN3C[C@@H](C)OC[P@@](N[C@@H](C)C(OC(C)C)=O)(O)=O)C)(O)=O)C)=O)C	impurity	DCTI-C-2181	(S,S)-N,N'-((((2R,2'R)-((methylenebis(azanediyl))bis(9H-purine-6,9-diyl))bis(propane-1,2-diyl))bis(oxy))bis(methylene))bis(N-((S)-1-isopropoxy-1-oxopropan-2-yl)phosphonamidic acid)	NA	Des Phenol Tenofovir Alafenamide Dimer impurity.	C31H50N12O10P2	812.76
3037		Tenofovir disoproxil fumarate IP impurity H	C[C@@H](OCP(OCOC(OCCC)=O)(OCOC(OC(C)C)=O)=O)CN1C=NC2=C(N)N=CN=C12	impurity	DCTI-C-1745	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)oxy)methyl propyl carbonate	NA	NPOC-POC PMPA; Tenofovir n-propyl impurity	C19H30N5O10P	519.45
3038		Tenofovir impurity 4 and 5	NC1=C2C(N(CC(OCP(OC)(OCOC(OC(C)C)=O)=O)C)C=N2)=NC=N1	impurity	DCTI-C-1746	(((((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(methoxy)phosphoryl)oxy)methyl isopropyl carbonate	NA	Me-poc PMPA1, Mepoc PMPA2	C15H24N5O7P	417.36
3039		Tenofovir Disoproxil Impurity-6	C[C@@H](OCP(OCOC(OC)=O)(OCOC(OC(C)C)=O)=O)CN1C=NC2=C(N)N=CN=C12	impurity	DCTI-C-1747	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)oxy)methyl methyl carbonate	NA	MOC-POC-PMPA; MOC-POC Tenofovir; Tenofovir isopropyl methyl diester	C17H26N5O10P	491.39

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3040		Tenofovir Disoproxil Ethyl Impurity	C[C@@H](OCP(OCOC(OC(C)C)=O)(OCC)=O)CN1C=NC2=C(N)N=CN=C12	impurity	DCTI-C-1748	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(ethoxy)phosphoryl)oxy)methyl isopropyl carbonate	NA	Mono-POC ethyl tenofovir; Tenofovir Disoproxil Impurity	C16H26N5O7P	431.39
3041		Tenofovir Impurity F, Mono-Poc Dimer (Tenofovir Ph.Int.Impu-F)	CC(OCP(OCOC(OC(C)C)=O)(O)=O)CN1C2=NC=NC(NCNC3=NC=NC4=C3N=CN4CC(C)OCP(OCOC(OC(C)C)=O)(O)=O)=C2N=C1	Impurity	DCTI-C-047	((Hydroxy((((2R)-1-(4-((((1-((2R)-2-((hydroxyhydrophosphoryl)methoxy)propyl)-1H-benzo[d]imidazol-4-yl)amino)methyl)amino)-1H-benzo[d]imidazol-1-yl)propan-2-yl)oxy)methyl)phosphoryl)bis(oxy))bis(methylene)	1962114-92-6	NA	C29H44N10O14P2	818.67
3042		Tenofovir Disoproxil Dimer	CC(OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)CN1C2=NC=NC(NCNC3=NC=NC4=C3N=CN4CC(C)OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)=C2N=C1	Impurity	DCTI-C-048	tetraisopropyl (((((((methylenebis(azanediyl))bis(9H-purine-6,9-diyl))bis(propane-1,2-diyl))bis(oxy))bis(methylene))bis(oxo-l5-phosphanetriyl))tetrakis(oxy))tetrakis(methylene)) tetracarbonate	1093279-76-5	NA	C39H60N10O20P2	1050.91
3043		Tri-POCTenofovir Dimer	CC(OCP(OCOC(OC(C)C)=O)(O)=O)CN1C2=NC=NC(NCNC3=NC=NC4=C3N=CN4CC(C)OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)=C2N=C1	Impurity	DCTI-C-049	(((((1-(6-((((9-(2-((bis(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)methoxy)propyl)-9H-purin-6-yl)amino)methyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)(hydroxy)phosphoryl)oxy)methyl isopropyl carbonate	1093279-77-6	NA	C34H52N10O17P2	934.79

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3044		Tenofovir Disoproxil Impurity	CC(OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)CN1C2=NC=NC(NC(OC(C)C)=O)=C2N=C1	Impurity	DCTI-C-050	isopropyl (9-(2-((bis(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)methoxy)propyl)-9H-purin-6-yl)carbamate	1244022-54-5	NA	C23H36N5O12P	605.54
3045		Hydroxy Methyl Tenofovir Monoproxil	CC(OCP(OCOC(OC(C)C)=O)(O)=O)CN1C2=NC=NC(NCO)=C2N=C1	Impurity	DCTI-C-181	((hydroxy(((1-(6-((hydroxymethyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphoryl)oxy)methyl isopropyl carbonate	1244022-55-6	NA	C15H24N5O8P	433.36
3046		Hydroxy methyl Tenofovir Disoproxil	OCNC1=C2C(N(CC(OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-046	(((((1-(6-((hydroxymethyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphoryl)bis(oxy))bis(methylene) diisopropyl bis(carbonate)	1244022-53-4	NA	C20H32N5O11P	549.47
3047		Emtricitabine Tenofovir Disoproxil	C[C@@H](OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)CN1C=NC2=C1N=CN=C2NCNC(C(F)=CN3[C@H]4O[C@@H](CO)SC4)=NC3=O	Impurity	DCTI-C-364	((((((R)-1-(6-((((5-fluoro-1-((2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)-2-oxo-1,2-dihydropyrimidin-4-yl)amino)methyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphoryl)bis(oxy))bis(methylene) diisopropyl bis(carbonate)	1962114-98-2	Emtricitabine Tenofovir Disoproxil Dimer	C28H40FN8O13PS	778.7

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3048		TAF-SRS-Diasteroisomer	NC1=C2C(N(C[C@@H](OC[P@](N[C@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-393	isopropyl ((R)-((((S)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C21H29N6O5P	476.47
3049		TAF-RSR-Diastereo Isomer	NC1=C2C(N(C[C@H](OC[P@@](N[C@@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-394	isopropyl ((S)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-D-alaninate	NA	Tenofovir alafenamide RSR diastereomer	C21H29N6O5P	476.47
3050		TAF-RRR-Diastero Isomer	NC1=C2C(N(C[C@H](OC[P@](N[C@@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-395	isopropyl ((R)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-D-alaninate	NA	Tenofovir Alafenamide RRR Diastereomer	C21H29N6O5P	476.47
3051		TAF-RRS-Diastereo Isomer	NC1=C2C(N(C[C@H](OC[P@](N[C@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-396	isopropyl ((R)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	NA	Tenofovir Alafenamide RRS Diastereomer	C21H29N6O5P	476.47
3052		Phenyl hydrogen ((((R)-1-(6-amino-9H-purin-9-yl)-propan-2-yl)oxy)methyl) phosphonate	NC1=C2C(N(C[C@@H](C)OCP(OC3=CC=CC=C3)(O)=O)C=N2)=NC=N1	Impurity	DCTI-C-397	phenyl hydrogen ((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate	379270-35-6	NA	C15H18N5O4P	363.31

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3053		TAF-Impurity K	NC1=C2C(N(/C=C/C)C=N2)=NC=N1	Impurity	DCTI-C-399	(E)-9-(prop-1-en-1-yl)-9H-purin-6-amine	1446486-33-4	Tenofovir Impurity K; Tenofovir 9-Propenyl Impurity; 9-Propenyladenine	C8H9N5	175.2
3054		Tenofovir Methyl Ester	NC1=C2C(N(C[C@H](OC[P@](OC3=CC=CC=C3)(N[C@@H](C)C(OC)=O)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-400	methyl ((S)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	390409-27-5	Tenofovir Alafenamide Methyl Ester Impurity	C19H25N6O5P	448.42
3055		TAF-SSS-Diasteroisomer	NC1=C2C(N(C[C@@H](OC[P@@](N[C@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-401	isopropyl ((S)-((((S)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C21H29N6O5P	476.47
3056		Tenofovir Methyl ester (RRS Isomer)	NC1=C2C(N(C[C@H](OC[P@@](OC3=CC=CC=C3)(N[C@@H](C)C(OC)=O)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-402	methyl ((R)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C19H25N6O5P	448.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3057		Tenofovir 9-Allyl impurity	NC1=C2C(N(CC=C)C=N2)=NC=N1	Impurity	DCTI-C-434	9-allyl-9H-purin-6-amine	4121-39-5	9-Allyl adenine; Tenofovir Impurity U; NSC 77154	C8H9N5	175.2
3058		9-(2-Hydroxypropyl)Adenine	NC1=C2C(N(CC(O)C)C=N2)=NC=N1	Impurity	DCTI-C-1518	1-(6-amino-9H-purin-9-yl)propan-2-ol	14047-26-8	NA	C8H11N5O	193.21
3059		2-(6-amino-9H-purin-9-yl)propan-1-ol	NC1=C2C(N(C(C)CO)C=N2)=NC=N1	Impurity	DCTI-C-412	2-(6-amino-9H-purin-9-yl)propan-1-ol	20776-34-5	NA	C8H11N5O	193.21
3060		((2-(6-amino-9H-purin-9-yl)propoxy)methyl)phosphonic acid	NC1=C2C(N(C(C)COCP(O)(O)=O)C=N2)=NC=N1	Impurity	DCTI-C-440	((2-(6-amino-9H-purin-9-yl)propoxy)methyl)phosphonic acid	107021-20-5	NA	C9H14N5O4P	287.22
3061		TAF Regio Isomer	NC1=C2C(N(C(C)COCP(OC3=CC=CC=C3)(N[C@@H](C)C(OC(C)C)=O)=O)C=N2)=NC=N1	Impurity	DCTI-C-473	Isopropyl (((2-(6-amino-9H-purin-9-yl)propoxy)methyl)(phenoxy)phosphoryl)-D-alaninate (mix of Diastereomers)	NA	NA	C21H29N6O5P	476.47

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3062	Tenofovir	Ten Phenol Regio Isomer	NC1=C2C(N(C(C)COCP(OC3=CC=CC=C3)(O)=O)C=N2)=NC=N1	Impurity	DCTI-C-474	phenyl hydrogen ((2-(6-amino-9H-purin-9-yl)propoxy)methyl)phosphonate	NA	NA	C15H18N5O4P	363.31
3063		TAF-PMPA-Isopropyl alaninate / Tenofovir Impurity	C[C@H](NP(O)(CO[C@H](C)CN1C=NC2=C(N)N=CN=C12)=O)C(OC(C)C)=O	Impurity	DCTI-C-398	P-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)-N-((S)-1-isopropoxy-1-oxopropan-2-yl)phosphonamidic acid	851456-00-3	Tenofovir Impurity-4	C15H25N6O5P	400.38
3064		Diphenyl(R)-(((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl) phosphonate	NC1=C2C(N(C[C@@H](C)OCP(OC3=CC=CC=C3)(OC4=CC=CC=C4)=O)C=N2)=NC=N1	Impurity	DCTI-C-552	diphenyl (R)-(((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate	342631-41-8	Tenofovir related Compound-1; Tenofovir Alfenamide Imp 3; Tenofovir Imp 12	C21H22N5O4P	439.41
3065		Tenofovir alafenamide propyl ester	NC1=C2C(N(C[C@@H](C)OC[P@@](N[C@@H](C)C(OCCC)=O)(OC3=CC=CC=C3)=O)C=N2)=NC=N1	Impurity	DCTI-C-830	propyl ((S)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	NA	Tenofovir alafenamide propyl ester RSS- Isomer	C21H29N6O5P	476.47

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3066		Tenofovir alafenamide propyl ester-RRS- Isomer	NC1=C2C(N(C[C@@H](C)OC[P@](N[C@@H](C)C(OCCC)=O)(OC3=CC=CC=C3)=O)C=N2)=NC=N1	Impurity	DCTI-C-831	propyl ((R)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	NA	NA	C21H29N6O5P	476.47
3067		Tenofovir Disoproxil Carbamate (Related Compound H)	O=C(OC(C)C)NC1=C2C(N(C[C@H](OCP(OCOC(OC(C)C)=O)(OCOC(OC(C)C)=O)=O)C=N2)=NC=N1	Impurity	DCTI-C-832	isopropyl (R)-(9-(2-((bis(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)methoxy)propyl)-9H-purin-6-yl)carbamate	1244022-54-5	Tenofovir Disoproxil Isopropoxy carbonyl	C23H36N5O12P	605.54
3068		Tenofovir Impurity A	NC1=C2N=CN(C[C@@H](C)OCP(O)(OCOC(OC(C)C)=O)=O)C2=NC=N1.N	Impurity	DCTI-C-833	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(hydroxy)phosphoryl)oxy)methyl isopropyl carbonate	NA	Tenofovir Isoproxil Monoester; Tenofovir Mono Isoproxil	C14H22N5O7P (Free Base) C14H25N6O7P (Ammonium Salt)	403.33 (Free Base) 420.36 (Ammonium Salt)
3069		PMPA Mono Ester Impurity	NC1=C2N=CN(C[C@@H](C)OCP(O)(OCC)=O)C2=NC=N1.N	Impurity	DCTI-C-834	ethyl hydrogen ((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate ammonium salt	NA	Ethyl Tenofovir Impurity	C11H18N5O4P (Free Base) C11H21N6O4P (Ammonium Salt)	315.27 (Free Base) 332.30 (Ammonium Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3070		Isopropyl Tenofovir	C[C@@H](OCP(O)(OC(C)C)=O)CN1C=NC2=C(N)N=CN=C12.N	Impurity	DCTI-C-835	isopropyl hydrogen ((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate ammonium salt	NA	NA	C12H20N5O4P (Free Base) C12H23N6O4P (Ammonium Salt)	329.30 (Free Base) 346.33 (Ammonium Salt)
3071		Tenofovir Imp B	NC1=C2N=CN(C[C@@H](C)OCP(OCOC(OC(C)C)=O)(OC(C)C)=O)C2=NC=N1	Impurity	DCTI-C-836	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(isopropoxy)phosphoryl)oxy)methyl isopropyl carbonate	1246812-40-7	NA	C17H28N5O7P	445.41
3072		Tenofovir Alafenamide impurity-2	NC1=C2C(N(C[C@@H](C)OCP(N[C@@H](C)C(OC(C)C)=O)(N[C@@H](C)C(OC(C)C)=O)=O)C=N2)=NC=N1	Impurity	DCTI-C-909	diisopropyl 2,2'-((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphoryl)bis(azanediyl))(2S,2'S)-dipropionate	NA	NA	C21H36N7O6P	513.54

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3073		Tenofovir alafenamide Racemic D isomer	NC1=C2C(N(C[C@@H](C)OCP(N[C@H](C)C(OC(C)C)=O)(OC3=CC=CC=C3)=O)C=N2)=NC=N1	Impurity	DCTI-C-910	isopropyl (((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-D-alaninate	NA	NA	C21H29N6O5P	476.47
3074		Diethyl-p-toluene sulfonyloxymethyl phosphonate	CC1=CC=C(S(=O)(OCP(OCC)(OCC)=O)=O)C=C1	Impurity	DCTI-C-911	(diethoxyphosphoryl)methyl 4-methylbenzenesulfonate	31618-90-3	NA	C12H19O6PS	322.31
3075		Tenofovir emtricitabine FT1	O=C1N=C(N)C(F)=CN1[C@@H]2CS[C@H](COP(CO[C@H](C)CN3C=NC4=C(N)N=CN=C34)(O)=O)O2.N	Impurity	DCTI-C-912	((2R,5S)-5-(4-amino-5-fluoro-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolan-2-yl)methyl hydrogen ((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate, ammonia salt	NA	NA	C17H22FN8O6PS (Free base) C17H25FN9O6PS (Ammonia salt)	516.45 (Free base) 533.48 (Ammonia Salt)
3076		Tenofovir emtricitabine FT5	O=C1N=C(NCNC2=C3N=CN(C[C@H](OCP(OCOC(OC(C)C)=O)(O)=O)C)C3=NC=N2)C(F)=CN1[C@@H]4CS[C@H](CO)O4.N	Impurity	DCTI-C-913	((((((R)-1-(6-((((5-fluoro-1-((2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)-2-oxo-1,2-dihydropyrimidin-4-yl)amino)methyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)(hydroxy)phosphoryl)oxy)methyl isopropyl carbonate, ammonia salt	NA	NA	C23H32FN8O10PS (Free base) C23H35FN9O10PS (Ammonia Salt)	662.59 (Free base) 679.62 (Ammonia salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3077		Diethylaminocarboxy methyl POC tenofovir	NC1=C2C(N(C[C@@H](C)OCP(OCOC(N(CC)CC)=O)(OCOC(OC(C)C)=O)=O)C=N2)=NC=N1	Impurity	DCTI-C-914	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)oxy)methyl diethylcarbamate	NA	NA	C20H33N6O9P	532.49
3078		Tenofovir Alafenamide Impurity-E	NC1=C2C(N(C[C@H](OCP(OC(C)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-915	isopropyl phenyl ((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate	NA	NA	C18H24N5O4P	405.39
3079		TAF-SRR-Diastereo Isomer	NC1=C2C(N(C[C@@H](OC[P@](N[C@@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-916	isopropyl ((R)-((((S)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-D-alaninate	NA	Tenofovir Alafenamide SRR Diastereomer	C21H29N6O5P	476.47
3080		TAF-SSR-Diastereo Isomer	NC1=C2C(N(C[C@@H](OC[P@@](N[C@@H](C(OC(C)C)=O)C)(OC3=CC=CC=C3)=O)C)C=N2)=NC=N1	Impurity	DCTI-C-917	isopropyl ((S)-((((S)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-D-alaninate	NA	Tenofovir Alafenamide SRR Diastereomer	C21H29N6O5P	476.47

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3081		Tenofovir Disoproxil Propyl Impurity	NC1=C2C(N(C[C@@H](C)OCP(OCOC(OC(C)C)=O)(OCCC)=O)C=N2)=NC=N1	impurity	DCTI-C-963	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(propoxy)phosphoryl)oxy)methyl isopropyl carbonate	NA	NA	C17H28N5O7P	445.41
3082		PMPA Propyl Ester Impurity	C[C@@H](OCP(OCCC)(O)=O)CN1C=NC2=C(N)N=CN=C12.N	impurity	DCTI-C-964	propylhydrogen((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate, ammonia salt	NA	NA	C12H20N5O4P (Free Base) C12H23N6O4P (Ammonium Salt)	329.30 (Free Base) 346.33 (Ammonium Salt)
3083		Isopropyl impurity of Tenofovir Di ethyl amine salt	OP(COC(C)CN1C2=NC=NC(NC(OC(C)C)=O)=C2N=C1)(OCOC(OC(C)C)=O)=O.CCNCC	impurity	DCTI-C-1069	((isopropoxycarbonyl)oxy)methyl (((1-(6-((isopropoxycarbonyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate. Diethylamine	NA	((hydroxy(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)methoxy)propyl)-9H-purin-6-yl)carbamate	C18H28N5O9P (Free Base) C22H39N6O9P(Diethyl amine Salt)	489.14 (Free Base) 562.25 (Diethyl amine Salt)
3084		Tenofovir Impurity-M	NC1=C2C(N(CC(C)OCP(OCOC(OCC)=O)(OCOC(OC(C)C)=O)=O)C=N2)=NC=N1	impurity	DCTI-C-1070	(((((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(((ethoxycarbonyl)oxy)methoxy)phosphoryl)oxy)methylisopropyl carbonate	2251049-49-5	Tenofovir Monoproxil ethyl ester	C18H28N5O10P	505.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3085		Tenofovir Dimer Triethylamine alt / Tenofovir AF TAFRC-2 / Tenofovir Disoproxil T3 Impurity	C[C@@H](OCP(O)(OP(CO[C@H](C)CN1C=NC2=C(N)N=CN=C12)(O)=O)=O)CN3C=NC4=C(N)N=CN=C34.[.2NEt3]	impurity	DCTI-C-1081	Triethylaminehemi(bis((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy) methyl)diphosphonate)	NA	NA	C18H26N10O7P2 (Free base) C30H56N12O7P2 (TEA Salt)	556.42 (Free base) 758.50 (TEA Salt)
3086		Tenofovir Isomer 6&1	NC1=C2C(N(C[C@H](C)OC[P@](OC3=CC=CC=C3)(N[C@H](C)C(OC(C)C)=O)=O)C=N2)=NC=N1.NC4=C5C(N(C[C@H](OC[P@@](OC6=CC=CC=C6)(N[C@@H](C)C(OC(C)C)=O)=O)C)C=N5)=NC=N4	impurity	DCTI-C-1082	isopropyl ((S)-((((S)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-D-alaninate & isopropyl ((R)-((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	383365-04-6	Tenofoir alafenamide Isomers; Tenofoir alafenamide Diasteroisomer Isomers 6&1	C21H29N6O5P	476.47
3087		Tenofovir alafenamide Impurity-I	NC1=C2N=CN(C[C@@H](C)OCP(O)(N[C@@H](C)C(O)=O)=O)C2=NC=N1.N	metabolite	DCTI-C-1083	(((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(hydroxy)phosphoryl)-L-alanine, Ammonium salt	NA	TAF-IMP-I	C12H22N7O5P (Ammonium salt) C12H19N6O5P (Free base)	375.33 (Ammonium salt) 358.29 (Free base)
3088		Tenofovir alafenamide Impurity-G	NC1=C2N=CN(C[C@@H](C)OCP(OC(C)C)(OC(C)C)=O)C2=NC=N1	impurity	DCTI-C-1084	diisopropyl (R)-(((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonate	160616-04-6	Diisopropyl Tenofovir	C15H26N5O4P	371.38

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3089		Tenofovir Disoproxil T5 Impurity Diethyl amine salt	OP(CO[C@H](C)CN1C=NC2=C(NCNC3=C(N=CN4C[C@@H](C)OCP(O)(O)=O)C4=NC=N3)N=CN=C12)(O)=O	impurity	DCTI-C-1190	diethylamine hemi((((R)-1-(6-((((9-((R)-2-(phosphonomethoxy)propyl)-9H-purin-6-yl)amino)methyl)amino)-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonic acid	NA	NA	C27H50N12O8P2 (Diethyl amine salt) C19H28N10O8P2 (Free base)	732.72 (Diethyl amine salt) 586.44 (Free base)
3090		Tenofovir Impurity 37	C[C@@H](C(OC)=O)NP(OC1=CC=CC=C1)(CO[C@H](C)CN2C=NC3=C(N)N=CN=C23)=O	Impurity	DCTI-C-2565	methyl (((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(phenoxy)phosphoryl)-L-alaninate	342631-31-6	Tenofovir alafenamide Methyl ester impurity	C19H25N6O5P	448.42
3091		Tenofovir (Z)-9- Propenyl adenine	NC1=C2C(N(/C=C\C)C=N2)=NC=N1	Impurity	DCTI-C-2544	(Z)-9-(prop-1-en-1-yl)-9H-purin-6-amine	1464851-21-5	Tenofovir (Z)-9- Propenyl adenine; (Z) -mutagenic impurity of Tenofovir Disoproxil	C8H9N6	175.19
3092		Tenofovir Impurity-O	O=P(OCOC(OC(C)C)=O)(OCOC(C(CC)CC)=O)CO[C@H](C)CN1C2=C(N=C1)C(N)=NC=N2	Impurity	DCTI-C-2887	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)oxy)methyl 2-ethylbutanoate	1246812-23-6	Tenofovir Disoproxil Fumarate USP RC J; Diethylaminocarboxymethyl POC tenofovir; Tenofovir Disoproxil Impurity Y	C21H34N5O9P	531.5
3093		(diisopropoxyphosphoryl)methyl 4-methylbenzenesulfonate	O=P(COS(=O)(C1=CC=C(C)C=C1)=O)(OC(C)C)OC(C)C	Impurity	DCTI-C-3613	(diisopropoxyphosphoryl)methyl 4-methylbenzenesulfonate	35717-98-7	bis(propan-2-yl) {[(4-methylbenzene)sulfonyl]oxy}methanephosphonate	C14H23O6PS	350.37
3094		Tenofovir Disoproxil Impurity L	O=P(OCOC(N(C)C)=O)(OCOC(OC(C)C)=O)CO[C@H](C)CN1C2=C(N=C1)C(N)=NC=N2	Impurity	DCTI-C-3667	((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)(((isopropoxycarbonyl)oxy)methoxy)phosphoryl)oxy)methyl dimethylcarbamate	NA	Tenofovir Disoproxil Fumarate IP Impurity L	C18H29N6O9P	504.44
3095		Tenofovir DEP impurity	O=C(NC1=NC=NC2=C1N=CN2C[C@H](O)C)C	Impurity	DCTI-C-3756	(R)-N-(9-(2-hydroxypropyl)-9H-purin-6-yl)acetamide	1497415-59-4	(R)-N-(9-(2-hydroxypropyl)-9H-purin-6-yl)acetamide (DEP impurity)	C10H13N5O2	235.25

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3096		N-Tenofovir Diphosphate	C[C@H](CN1C2=NC=NC(N)=C2N=C1)OCP(OP(OP(O)(O)=O)(O)=O)(O)=O	Metabolite	DCTI-C-3785	(R)-(((1-(6-amino-9H-purin-9-yl)propan-2-yl)oxy)methyl)phosphonic diphosphoric anhydride	166403-66-3	N-Tenofovir diphosphate	C9H16N5O10P3	447.17
3097	Terbinafine	1-(chloromethyl)-4-methylnaphthalene	CC1=C2C=CC=CC2=C(CCl)C=C1	Impurity	DCTI-C-2989	1-(chloromethyl)-4-methylnaphthalene	5261-50-7	NA	C12H11Cl	190.67
3098		1-[4-(AMINOMETHYL)-1-NAPTHYL-N,N-DIMETHYLAMINE.HCl	NCC1=CC=C(CN(C)C)C2=CC=CC=C21.Cl	Impurity	DCTI-C-2990	1-(4-(aminomethyl)naphthalen-1-yl)-N,N-dimethylmethanamine hydrochloride	2514708-08-6 (free base)	NA	C14H18N2 (Free base); C14H19ClN2 (HCl Salt)	214.31 (Free base); 250.77 (HCl Salt)
3099	Teriflunomide	Teriflunomide imp-B	OCC1=CC=C(NC(/C(C#N)=C(O)/C)=O)C=C1	Impurity	DCTI-C-007	(Z)-2-cyano-3-hydroxy-N-(4-(hydroxymethyl)phenyl)but-2-enamide	NA	NA	C12H12N2O3	232.24
3100		3-Trifluoromethyl Teriflunomide	O=C(/C(C#N)=C(O)/C)NC1=CC=CC(C(F)(F)F)=C1	impurity	DCTI-C-2172	(Z)-2-cyano-3-hydroxy-N-(3-(trifluoromethyl)phenyl)but-2-enamide	63927-52-6	3-Trifluoromethyl Isomer.	C12H9F3N2O2	270.21
3101		Teriflunomide Impurity	O=C(C(O)C#N)NC1=CC=C(C(F)(F)F)C=C1	Impurity	DCTI-C-132	2-cyano-2-hydroxy-N-(4-(trifluoromethyl)phenyl)acetamide	NA	NA	C10H7F3N2O2	244.17

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3102		Pentanamide compound (teriflunomide)	CC/C(O)=C(C#N)/C(NC1=CC=C(C(F)(F)F)C=C1)=O	Impurity	DCTI-C-2648	(Z)-2-cyano-3-hydroxy-N-(4-(trifluoromethyl)phenyl)pent-2-enamide	2734292-21-6	NA	C13H11F3N2O2	284.23
3103	**Testosterone**	Testosterone Realted Impurity	C[C@]1(CC2)C(CC[C@@H]1O)C3=C2[C@]4(C)C(CC3)=CC(CC4)=O	Impurity	DCTI-C-019	(10S,13S,17S)-17-hydroxy-10,13-dimethyl-1,2,6,7,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	NA	NA	C19H26O2	286.42
3104		Testosterone Realted Impurity	O=C1CC[C@]2(C)C3=CC[C@]4(C)[C@@H](O)CC[C@@]4([H])[C@]3([H])CCC2=C1	Impurity	DCTI-C-020	(8S,10S,13S,14S,17S)-17-hydroxy-10,13-dimethyl-1,2,6,7,8,10,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	2398-99-4	NSC 30932; U 3435	C19H26O2	286.42
3105		(+) β -Dihydro tetrabenazine	[H][C@@]12N(CCC3=C2C=C(OC)C(OC)=C3)C[C@@H](CC(C)C)[C@@H](O)C1	impurity	DCTI-C-1309	(2S,3R,11bR)-3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-ol	924854-60-4	Beta-Dihydrotetrabenazine; (2S,3R,11bR)-Dihydrotetrabenazine	C19H29NO3	319.45
3106		Dihydrotetrabenazine	CC(C)CC1C(O)CC2N(CCC3=C2C=C(OC)C(OC)=C3)C1	Impurity	DCTI-C-1667	3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-ol	3466-75-9	NA	C19H29NO3	319.45
3107		Tetrabenazine Related Impurity 3	COC(C(OC)=C1)=CC2=C1CCN(CC3CCCC)C2CC3=O	impurity	DCTI-C-1624	3-butyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-one	NA	Tetrabenazine 3-n-Butyl; Tetrabenazine Impurity 19	C19H27NO3	317.43

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3108	Tetrabenazine	9-desmethyl α-dihydro tetrabenazine	[H][C@@]12N(CCC3=C2C=C(OC)C(O)=C3)C[C@@H](CC(C)C)[C@H](O)C1	metabolite	DCTI-C-1113	(2R,3R,11bR)-3-isobutyl-10-methoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinoline-2,9-diol-rel	1065193-59-0	(±)-9-deme-dtbz; (2R,3R,11bR)-rel-9-deMe-DTBZ	C18H27NO3	305.41
3109		(2S,3S,11bS)-Dihydrotetrabenazine	O[C@@H]1[C@H](CN2[C@](C1)([H])C3=C(CC2)C=C(C(OC)=C3)OC)CC(C)C	impurity	DCTI-C-1423	(2S,3S,11bS)-3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-ol	NA	(-) α-Dihydrotetrabenazine; (-) Dihydrotetrabenazine; (2S,3S,11bS)-DHTBZ; Alpha Dihydrotetrabenazine	C19H29NO3	319.45
3110		(2R,3S,11bS)-Dihydrotetrabenazine	O[C@H]1[C@H](CN2[C@](C1)([H])C3=C(CC2)C=C(C(OC)=C3)OC)CC(C)C	impurity	DCTI-C-1424	(2R,3S,11bS)-3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-ol	NA	Beta-Dihydrotetrabenazine; (-) β-Dihydro tetrabenazine	C19H29NO3	319.45
3111		α-Dihydro tetrabenazine	[H][C@@]12N(CCC3=C2C=C(OC)C(OC)=C3)C[C@@H](CC(C)C)[C@H](O)C1	impurity	DCTI-C-1114	(2R,3R,11bR)-3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-ol rel	85081-18-1	NA	C19H29NO3	319.45
3112		1,11b-Dedihydrotetrabenazine	O=C1C(CC(C)C)CN2CCC3=CC(OC)=C(OC)C=C3C2=C1	Impurity	DCTI-C-2666	3-isobutyl-9,10-dimethoxy-3,4,6,7-tetrahydro-2H-pyrido[2,1-a]isoquinolin-2-one	100322-43-8	Didehydro Tetrabenazine, Tetrabenazine Dehydro Impurity	C19H25NO3	315.41
3113	**tetracaine**	N-nitroso-tetracaine impurity	CCCCN(N=O)C1=CC=C(C(OCCN(C)C)=O)C=C1	NDSRI	DCTI-C-3786	2-(dimethylamino)ethyl 4-(butyl(nitroso)amino)benzoate	NA	N-nitroso-tetracaine impurity (Mixture of isomers)	C15H23N3O3	293.37

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3114	Theophylline	3-Methyl Xanthine	O=C1NC(C2=C(N=CN2)N1C)=O	Impurity	DCTI-C-031	3-methyl-3,7-dihydro-1H-purine-2,6-dione	1076-22-8	NSC 515466; Pentoxifylline EP Impurity B	C6H6N4O2	166.14
3115		1,3-dimethyl uric acid	O=C1N(C)C(C2=C(NC(N2)=O)N1C)=O	Impurity	DCTI-C-032	1,3-dimethyl-7,9-dihydro-1H-purine-2,6,8(3H)-trione	944-73-0	Ba 2751; NSC 95854; Oxytheophylline	C7H8N4O3	196.17
3116	Thiorphan Impurities	S-Methylthiorphan	O=C(NCC(O)=O)C(CSC)CC1=CC=CC=C1	Impurity	DCTI-C-3333	(2-benzyl-3-(methylthio)propanoyl)glycine	1005348-29-7	NA	C13H17NO3S	267.34
3117		S-Methylthiorphan S-Oxide	O=C(NCC(O)=O)C(CS(C)=O)CC1=CC=CC=C1	Impurity	DCTI-C-3350	(2-benzyl-3-(methylsulfinyl)propanoyl)glycine	NA	NA	C13H17NO4S	283.34
3118	Thiothixene	Thiothixene impurity (DHTS impurity)	O=S(C(C=C1)=CC2=C1SC3=CC=CC=C3/C2=C/C(O)CN4CCN(C)CC4)(N(C)C)=O	Impurity	DCTI-C-187	(Z)-9-(2-hydroxy-3-(4-methylpiperazin-1-yl)propylidene)-N,N-dimethyl-9H-thioxanthene-2-sulfonamide	NA	NA	C23H29N3O3S2	459.62
3119		N-desmethyl thiothixene (Mixture of E/Z isomers)	O=S(C1=CC(/C2=C\CCN3CCN(C)CC3)=C(SC4=C2C=CC=C4)C=C1)(NC)=O	Impurity	DCTI-C-365	(Z)-N-methyl-9-(3-(4-methylpiperazin-1-yl)propylidene)-9H-thioxanthene-2-sulfonamide	84294-04-2	NA	C22H27N3O2S2	429.6

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3120		Thioxanthene Impurity	O=S(C(C=C1)=CC2=C1C(C3=CC=CC=C3S2)=O)(N(C)C)=O	Impurity	DCTI-C-146	N,N-dimethyl-9-oxo-9H-thioxanthene-3-sulfonamide	NA	NA	C15H13NO3S2	319.39
3121	Tiagabine	Tiagabine diol analog	O=C([C@H]1CN(CCC(O)C(C2=C(C)C=CS2)(O)C3=C(C)C=CS3)CCC1)O	impurity	DCTI-C-1246	(3R)-1-(3,4-dihydroxy-4,4-bis(3-methylthiophen-2-yl)butyl)piperidine-3-carboxylic acid	2125725-84-8	NA	C20H27NO4S2	409.56
3122		Tiagabine keto analog	O=C([C@H]1CN(CCC(C(C2=C(C)C=CS2)C3=C(C)C=CS3)=O)CCC1)O	impurity	DCTI-C-1247	(R)-1-(4,4-bis(3-methylthiophen-2-yl)-3-oxobutyl)piperidine-3-carboxylic acid	161014-55-7	NA	C20H25NO3S2	391.54
3123		TIAGABINE HYDROCHLORIDE STAGE - I IMP	O=C([C@H]1CN(CC/C=C(C2=C(C)C=CS2)/C3=C(C)C=CS3)CCC1)OC.Cl	IMPURITY	DCTI-C-2741	Methyl (R)-1-(4,4-bis(3-methylthiophen-2-yl)but-3-en-1-yl)piperidine-3-carboxylate hydrochloride	938159-01-4	Tiagabine Impurity 5, Tiagabine Methyl Ester Hydrochloride	C21H27NO2S2 (Free base)C21H28ClNO2S2 (HCl Salt)	389.57 (Free base)426.03 (HCl Salt)
3124		Ticagrelor Sulfone	O[C@H]1[C@@H](O)[C@H](N2N=NC3=C(N[C@H]4[C@H](C5=CC=C(F)C(F)=C5)C4)N=C(S(=O)(CCC)=O)N=C32)C[C@@H]1OCCO	impurity	DCTI-C-955	(1S,2S,3R,5S)-3-(7-(((1R,2S)-2-(3,4-difluorophenyl)cyclopropyl)amino)-5-(propylsulfonyl)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol	274693-39-9	Ticagrelor impurity M	C23H28F2N6O6S	554.57
3125		4,6-dichloro-5-nitro-2-(propylthio)pyrimidine	CCCSC1=NC(Cl)=C([N+]([O-])=O)C(Cl)=N1	Impurity	DCTI-C-1519	4,6-dichloro-5-nitro-2-(propylthio)pyrimidine	145783-14-8	Ticagrelor Intermediate	C7H7Cl2N3O2S	268.11

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3126	Ticagrelor	4,6-dichloro-2-(propylthio)pyrimidin-5-amine	CCCSC1=NC(Cl)=C(N)C(Cl)=N1	Impurity	DCTI-C-1520	4,6-dichloro-2-(propylthio)pyrimidin-5-amine	145783-15-9	Ticagrelor Intermediate	C7H9Cl2N3S (free base)	238.13 (free base)
3127		Ticagrelor Sulfoxide	O[C@H]1[C@@H](O)[C@H](N2N=NC3=C(N[C@H]4[C@H](C5=CC=C(F)C(F)=C5)C4)N=C(S(CCC)=O)N=C32)C[C@@H]1OCCO	impurity	DCTI-C-956	(1S,2S,3R,5S)-3-(7-(((1R,2S)-2-(3,4-difluorophenyl)cyclopropyl)amino)-5-(propylsulfinyl)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol	1644461-85-7	Ticagrelor impurity L	C23H28F2N6O5S	538.57
3128		Ticagrelor acetonide	CC1(C)O[C@@]([C@@H](OCCO)C[C@H]2N3N=NC4=C(N[C@H]5[C@H](C6=CC=C(F)C(F)=C6)C5)N=C(SCCC)N=C43)([H])[C@@]2([H])O1	impurity	DCTI-C-957	2-(((3aR,4S,6R,6aS)-6-(7-(((1R,2S)-2-(3,4-difluorophenyl)cyclopropyl)amino)-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-yl)oxy)ethan-1-ol	276693-26-4	NA	C26H32F2N6O4S	562.63
3129		Ticagrelor Related Compound 91	CC1(C)O[C@]([C@H](N)C[C@H]2OCCO)([H])[C@]2([H])O1.O[C@H]([C@H](C(O)=O)O)C(O)=O	impurity	DCTI-C-1204	2-(((3aR,4R,6R,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-yl)oxy)ethan-1-ol (2R,3R)-2,3-dihydroxysuccinate	NA	NA	C14H25NO10	367.35
3130		(1S,2S,3R,5S)-3-((5-amino-2-(propylthio)pyrimidin-4-yl)amino)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol	CCCSC1=NC=C(N)C(N[C@@H]2C[C@H](OCCO)[C@@H](O)[C@H]2O)=N1	Impurity	DCTI-C-2662	(1S,2S,3R,5S)-3-((5-amino-2-(propylthio)pyrimidin-4-yl)amino)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol	NA	Ticagrelor impurity-1	C14H24N4O4S	344.43

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3131		(1S,2S,3S,5R)-3-(2-hydroxyethoxy)-5-((5-nitro-2-(propylthio)pyrimidin-4-yl)amino)cyclopentane-1,2-diol	CCCSC1=NC=C([N+]([O-])=O)C(N[C@@H]2C[C@H](OCCO)[C@@H](O)[C@H]2O)=N1	Impurity	DCTI-C-2663	(1S,2S,3S,5R)-3-(2-hydroxyethoxy)-5-((5-nitro-2-(propylthio)pyrimidin-4-yl)amino)cyclopentane-1,2-diol	NA	Ticagrelor impurity-2	C14H22N4O6S	374.41
3132		Ticagrelor Diastereo isomer (C-6)	OCCO[C@H]1C[C@H](N)[C@@]2([H])[C@]1([H])OC(C)(C)O2.O=C(O)[C@H](O)[C@@H](O)C(O)=O	Impurity	DCTI-C-2933	2-(((3aR,4S,6S,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-yl)oxy)ethan-1-ol (2R,3R)-2,3-dihydroxysuccinate	2376278-70-3	TICA-01 Diastereo Isomer (C-6), Ticagrelor Related Impurity	C14H25NO10 (Tartrate salt);C10H19NO4 (free base)	367.35 (Tartrate salt);217.27 (Free Base)
3133		(1S,2S)-2-(3,4-difluorophenyl)cyclopropan-1-amine Hydrochloride	FC1=C(F)C=CC([C@H]2[C@@H](N)C2)=C1.Cl	Impurity	DCTI-C-3394	(1S,2S)-2-(3,4-difluorophenyl)cyclopropan-1-amine hydrochloride	1459719-81-3 (Free base	NA	C9H9F2N (Free base) C9H10ClF2N (HCl Salt)	169.17 (Free base) 205.63 (HCl Salt)
3134		(1R,2R)-2-(3,4-difluorophenyl)cyclopropane-1-amine Hydrochloride	FC1=C(F)C=CC([C@@H]2[C@H](N)C2)=C1.Cl	Impurity	DCTI-C-3395	(1R,2R)-2-(3,4-difluorophenyl)cyclopropan-1-amine hydrochloride	1414348-35-8 (Free base	NA	C9H9F2N (Free base) C9H10ClF2N (HCl Salt)	169.17 (Free base) 205.63 (HCl Salt)
3135		(3aR,4R,6R,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	O[C@@H]1C[C@@H](N)[C@@]2([H])[C@]1([H])OC(C)(C)O2	Impurity	DCTI-C-3437	(3aR,4R,6R,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	151527-83-2	Ticagrelor Impurity 9	C8H15NO3	173.21
3136		(3aR,4S,6S,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	O[C@H]1C[C@H](N)[C@@]2([H])[C@]1([H])OC(C)(C)O2	Impurity	DCTI-C-3460	(3aR,4S,6S,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	2376278-80-5	NA	C8H15NO3	173.21
3137		(3aR,4R,6S,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	O[C@@H]1C[C@H](N)[C@@]2([H])[C@]1([H])OC(C)(C)O2	Impurity	DCTI-C-3474	(3aR,4R,6S,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	2715109-35-4	NA	C8H15NO3	173.21

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3138	Tigecycline	4-Epimer of Tigecycline Hydrochloride	O=C(C(C1=O)=C(O)[C@H](N(C)C)[C@]2([H])C[C@]3([H])CC4=C(C(C3=C(O)[C@@]21O)=O)C(O)=C(NC(CNC(C)(C)C)=O)C=C4N(C)C)N.Cl	metabolite	DCTI-C-435	(4R,4aS,5aR,12aS)-9-(2-(tert-butylamino)acetamido)-4,7-bis(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide hydrochloride	1422262-97-2	4-Epi Tigecycline hydrochloride	C29H40ClN5O8 (HCl Salt) C29H39N5O8 (Free Base)	622.12 (HCl Salt) 585.66 (Free Base)
3139		(3aR,4R,6S,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-ol	O=C(CN(N=O)C(C)(C)C)NC1=CC(N(C)C)=C2C(C(C3=C(O)[C@@](C(C(C(N)=O)=C(O)[C@H]4N(C)C)=O)(O)[C@@]4([H])C[C@]3([H])C2)=O)=C1O	NDSRI	DCTI-C-2106	(4S,4aS,5aR,12aS)-9-(2-(tert-butyl(nitroso)amino)acetamido)-4,7-bis(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide;	NA	NA	C29H38N6O9	614.66
3140		Tigecycline quinone Analog	CN(C)C1=C2C(C(C[C@]([H])(CC3=C(O)C(C(C(N)=O)=C(O)C3=O)=O)C2)=O)=C(O)C(NC(CNC(C)(C)C)=O)=C1	Impurity	DCTI-C-436	(S)-4-((6-(2-(tert-butylamino)acetamido)-8-(dimethylamino)-5-hydroxy-4-oxo-1,2,3,4-tetrahydronaphthalen-2-yl)methyl)-2,5-dihydroxy-3,6-dioxocyclohexa-1,4-diene-1-carboxamide	1268494-46-7	Tigecycline Impurity 9	C26H32N4O8	528.56
3141		12-oxo-11 hydroxy Tigecycline	CN(C)C1=C2C(C(O)=C3C(C[C@]4([H])[C@@](C3=O)(O)C(C(C(N)=O)=C(O)[C@H]4N(C)C)=O)=C2)=C(O)C(NC(CNC(C)(C)C)=O)=C1	Impurity	DCTI-C-467	(4S,4aS,12aS)-9-(2-(tert-butylamino)acetamido)-4,7-bis(dimethylamino)-3,10,11,12a-tetrahydroxy-1,12-dioxo-1,4,4a,5,12,12a-hexahydrotetracene-2-carboxamide	NA	Tigecycline Impurity 8	C29H37N5O8	583.64

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3142		Tigecycline Tricyclic Analog	CN(C)C1=C2C(C(C3(C4=O)[C@@](CC5[C@@](O)3C(O)=C(C(N)=O)C([C@]54O)=O)([H])C2)=O)=C(O)C(NC(CNC(C)(C)C)=O)=C1	Impurity	DCTI-C-514	(1S,4aR,10aR)-7-(2-(tert-butylamino)acetamido)-9-(dimethylamino)-1,4,4a,6-tetrahydroxy-2,5,12-trioxo-1,2,4a,5,10,10a,11,11a-octahydro-1,4b-methanobenzo[b]fluorene-3-carboxamide	1268494-40-1	Tigecycline pentacyclic Analog	C27H32N4O9	556.57
3143	Timolol	N-Nitroso (R)-Timolol	O[C@H](CN(N=O)C(C)(C)C)COC1=NSN=C1N2CCOCC2	NDSRI	DCTI-C-3671	(R)-N-(tert-butyl)-N-(2-hydroxy-3-((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propyl)nitrous amide	NA	NA	C13H23N5O4S	345.42
3144		Timolol EP Impurity B	OCC(CNC(C)(C)C)OC1=NSN=C1N2CCOCC2	Impurity	DCTI-C-3687	3-(tert-butylamino)-2-((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propan-1-ol	59697-06-2	rac-Isotimolol; Timolol Related Compound B; Timolol impurity B (racemic)	C13H24N4O3S	316.42
3145		NDSRI of Timolol Impurity B	OCC(CN(N=O)C(C)(C)C)OC1=NSN=C1N2CCOCC2	NDSRI	DCTI-C-3678	N-(tert-butyl)-N-(3-hydroxy-2-((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propyl)nitrous amide	NA	NA	C13H23N5O4S	345.42
3146		NDSRI of Timolol Related Compound E	CC(N(N=O)C[C@H](OC(/C=C\C(O)=O)=O)COC1=NSN=C1N2CCOCC2)(C)C	NDSRI	DCTI-C-3679	(S,Z)-4-((1-(tert-butyl(nitroso)amino)-3-((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propan-2-yl)oxy)-4-oxobut-2-enoic acid	NA	NA	C17H25N5O7S	443.47
3147		NDSRI of Timolol Impurity C	CC(N(N=O)CC(OC1=NSN=C1N2CCOCC2)COC3=NSN=C3N4CCOCC4)(C)C	NDSRI	DCTI-C-3693	N-(2,3-bis((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propyl)-N-(tert-butyl)nitrous amide	NA	NA	C19H30N8O5S2	514.62
3148		Timolol EP Impurity C	CC(NCC(OC1=NSN=C1N2CCOCC2)COC3=NSN=C3N4CCOCC4)(C)C	Impurity	DCTI-C-3716	N-(tert-butyl)-2,3-bis((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propan-1-amine	610271-56-2	NA	C19H31N7O4S2	485.62
3149		N-Nitroso Timolol	O[C@H](COC1=NSN=C1N2CCOCC2)CN(N=O)C(C)(C)C	NDSRI	DCTI-C-3715	(S)-N-(tert-butyl)-N-(2-hydroxy-3-((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propyl)nitrous amide	NA	N-Nitroso Timolol mixture f isomers	C13H23N5O4S	345.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3150	Tiotropium	Tiotropium Bromide EP Impurity C	C[N+]1(C)[C@@H]2C[C@@H](OC(C(C3=CC=CS3)(O)C4=CC=CS4)=O)C[C@H]1C=C2.[Br-]	impurity	DCTI-C-2182	(1R,3s,5S)-3-(2-hydroxy-2,2-di(thiophen-2-yl)acetoxy)-8,8-dimethyl-8-azabicyclo[3.2.1]oct-6-en-8-ium bromide	NA	Tiotropium EP Impurity C	C19H22NO¬3¬S2 (Free Ammonium) C19H22BrNO3S2 (Bromide salt)	376.51 (Free Ammonium) 456.41 (Bromide salt)
3151		Tiotropium EP Impurity E	O=C(OC)C(C1=CC=CS1)(O)C2=CC=CS2	impurity	DCTI-C-2183	Methyl 2-hydroxy-2,2-dithiophen-2-ylacetate	26447-85-8	Methyl Di(2-thienylglycolate).	C11H10O3S2	254.32
3152		Tiotropium EP Impurity A	O=C(O)C(C1=CC=CS1)(O)C2=CC=CS2	impurity	DCTI-C-2184	2-hydroxy-2,2-di(thiophen-2-yl)acetic acid	4746-63-8	(Hydroxy)(di-2-thienyl)acetic Acid	C10H8O3S2	240.29
3153		Tiotropium impurity G	O[C@@H]1C[C@H]([C@H]2O[C@H]2[C@@H]3C1)[N+]3(C)C.[Br-]	Impurity	DCTI-C-2671	(1R,2R,4S,5S,7s)-7-hydroxy-9,9-dimethyl-3-oxa-9-azatricyclo[3.3.1.02,4]nonan-9-ium bromide	1508-46-9	Scopine Methobromide, Tiotropium IMP G, N-Methyl scopine Bromide	C9H16BrNO2 (Bromide salt); C9H16NO2 (Free Base)	250.14 (Bromide salt); 170.23 (Free Base)
3154		2-Desmethylbenzaldehyde Tolvaptan	NC1=CC(C)=C(C(N2C3=CC=C(Cl)C=C3C(CCC2)O)=O)C=C1	metabolite	DCTI-C-1623	(4-amino-2-methylphenyl)(7-chloro-5-hydroxy-2,3,4,5-tetrahydro-1H-benzo[b]azepin-1-yl)methanone	NA	NA	C18H19ClN2O2	330.81
3155		TOLVAPTAN TLVRC-2	CC1=CC=CC=C1C(NC2=CC(C)=C(C(N3C4=CC=C(Cl)C=C4C(CCC3)=O)=O)C=C2)=O	metabolite	DCTI-C-1703	N-(4-(7-chloro-5-oxo-2,3,4,5-tetrahydro-1H-benzo[b]azepine-1-carbonyl)-3-methylphenyl)-2-methylbenzamide	NA	Tolvaptan impurity 5; 5-Dehydro Tolvaptan; Tolvaptan 5-Oxo Analog	C26H23ClN2O3	446.93

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3156	Tolvaptan	Tolvaptan metabolite DM4107	OC(CCC(O)=O)C1=C(NC(C2=C(C)C=C(NC(C3=C(C)C=CC=C3)=O)C=C2)=O)C=CC(Cl)=C1	metabolite	DCTI-C-1352	4-(5-chloro-2-(2-methyl-4-(2-methylbenzamido)benzamido)phenyl)-4-hydroxybutanoic acid	1346599-75-4	DM 4107	C26H25ClN2O5	480.95
3157		Tolvaptan metabolite DM4103	O=C(CCC(O)=O)C1=C(NC(C2=C(C)C=C(NC(C3=C(C)C=CC=C3)=O)C=C2)=O)C=CC(Cl)=C1	metabolite	DCTI-C-1351	4-(5-chloro-2-(2-methyl-4-(2-methylbenzamido)benzamido)phenyl)-4-oxobutanoic acid	1346599-56-1	DM 4103	C26H23ClN2O5	478.93
3158		7-chloro-2,3,4,5-tetrahydro-1H-benzo[b]azepin-5-ol	OC1C2=CC(Cl)=CC=C2NCCC1	IMPURITY	DCTI-C-2697	7-chloro-2,3,4,5-tetrahydro-1H-benzo[b]azepin-5-ol	1310357-40-4	Tolvaptan Impurity 36	C10H12ClNO	197.66
3159		Tolvaptan Desmethyl Impurity	OC1C2=CC(Cl)=CC=C2N(C(C3=CC(C)=C(NC(C4=CC=CC=C4)=O)C=C3)=O)CCC1	IMPURITY	DCTI-C-2744	N-(4-(7-chloro-5-hydroxy-2,3,4,5-tetrahydro-1H-benzo[b]azepine-1-carbonyl)-2-methylphenyl)benzamide	1580889-33-3	Tolvaptan Impurity 9	C25H23ClN2O3	434.92
3160		2-methyl-4-(2-methylbenzamido)benzoic acid (Tolvaptan)	O=C(O)C1=C(C)C=C(NC(C2=C(C)C=CC=C2)=O)C=C1	Impurity	DCTI-C-2866	2-methyl-4-(2-methylbenzamido)benzoic acid	317374-08-6	NA	C16H15NO3	269.3
3161		Tolvaptan amide impurity	CC1=CC=CC=C1C(NC2=CC=C(C(C)=C2)C(O)=O)=O	IMPURITY	DCTI-C-2699	2-methyl-4-(2-methylbenzamido)benzoic acid	317374-08-6	Tolvaptan Impurity 28	C16H15NO3	269.3
3162		3-Methyl tolvaptan	CC1=C(C(NC2=C(C)C=C(C(N3C4=CC=C(C=C4C(CCC3)O)Cl)=O)C=C2)=O)C=CC=C1	impurity	DCTI-C-2745	N-(4-(7-chloro-5-hydroxy-2,3,4,5-tetrahydro-1H-benzo[b]azepine-1-carbonyl)-2-methylphenyl)-2-methylbenzamide	NA	NA	C26H25ClN2O3	448.95

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3163		Tolvaptan Deschloro Impurity	CC1=C(C(NC2=CC(C)=C(C(N3C4=CC=CC=C4C(CC3)O)=O)C=C2)=O)C=CC=C1	impurity	DCTI-C-2746	N-(4-(5-hydroxy-2,3,4,5-tetrahydro-1H-benzo[b]azepine-1-carbonyl)-3-methylphenyl)-2-methylbenzamide	1432725-23-9	Tolvaptan Impurity 7	C26H26N2O3	414.51
3164		N-(4-(7-chloro-5,5-dimethoxy-2,3,4,5-tetrahydro-1H-benzo[b]azepine-1-carbonyl)-3-methylphenyl)-2-methylbenzamide	CC1=CC=CC=C1C(NC2=CC=C(C(N3C4=CC=C(C=C4C(CCC3)(OC)OC)Cl)=O)C(C)=C2)=O	Impurity	DCTI-C-3645	N-(4-(7-chloro-5,5-dimethoxy-2,3,4,5-tetrahydro-1H-benzo[b]azepine-1-carbonyl)-3-methylphenyl)-2-methylbenzamide	2646689-55-4	Tolvaptan impurity	C28H29ClN2O4	493
3165	**Tofacitinib**	(3R,4S)-Tofacitinib	CN([C@@H]1[C@@H](C)CCN(C(CC#N)=O)C1)C2=C(C=CN3)C3=NC=N2	impurity	DCTI-C-1528	3-((3R,4S)-4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile	NA	Tofacitinib (3R, 4S)-diastereomer; (3R, 4S)-4-Methyl-3-(methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-β-oxo-1-piperidinenitrile	C16H20N6O	312.38
3166		(3R,4S)-1-benzyl-N,4-dimethylpiperidin-3-amine dihydrochloride	C[C@@H]1[C@@H](NC)CN(CC2=CC=CC=C2)CC1	Impurity	DCTI-C-1532	(3R,4S)-1-benzyl-N,4-dimethylpiperidin-3-amine dihydrochloride	NA	Tofacitinib Impurity	C14H22N2 (Free Base) C14H24Cl2N2 (Salt)	218.34 (Free Base) 291.26 (Salt)
3167		(3S,4R)-Tofacitinib	CN([C@H]1[C@H](C)CCN(C(CC#N)=O)C1)C2=C(C=CN3)C3=NC=N2	impurity	DCTI-C-1529	3-((3S,4R)-4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile	NA	Tofacitinib (3S, 4R)-diastereomer; (3S, 4R)-4-Methyl-3-(methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-β-oxo-1-piperidinenitrile	C16H20N6O	312.38
3168		Tofacitinib Nitrosoamine Impurity-1	C[C@@H]1CCN(N=O)C[C@@H]1N(C2=NC=NC3=C2C=CN3)C	NDSRI	DCTI-C-3112	N-methyl-N-((3R,4R)-4-methyl-1-nitrosopiperidin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine	NA	N-Nitroso Tofacitinib Impurity (Mixture of Diasteromers)	C13H18N6O	274.33
3169		Tofacitinib Diastereomers	CN([C@@H]1[C@@H](C)CCN(C(CC#N)=O)C1)C2=C(C=CN3)C3=NC=N2.CN([C@H]4[C@H](C)CCN(C(CC#N)=O)C4)C5=C(C=CN6)C6=NC=N5	Impurity	DCTI-C-3262	3-((3RS,4SR)-4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile	NA	Tofacitinib IP Impurity B	C16H20N6O	312.38

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3170	Topiramate	Topiramate EP Impurity B	CCN(C(NS(OC[C@@]12OC[C@@H](O3)[C@H]([C@@H]1OC(C)(O2)C)OC3(C)C)(=O)=O)=O)CC	Impurity	DCTI-C-1521	((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methyl (diethylcarbamoyl)sulfamate	876403-98-4	1-O-[(diethylcarbamoyl)sulfamoyl]-2,3:4,5-bis-O-(1-methylethylidene)- -D-fructopyranose; Topiramate EP Impurity B	C17H30N2O9S	438.49
3171		Topiramate EP Impurity A	CC(O[C@H]1[C@H]2[C@H](OC(C)(O2)C)CO[C@]13CO)(O3)C	impurity	DCTI-C-1688	((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methanol	20880-92-6	Topiramate Impurity A; NSC 407023	C12H20O6	260.29
3172		Topiramate EP Impurity D	CC1(O[C@H]2[C@H]3[C@H](OC(C)(O3)C)CO[C@@]2(COS(NC(OC[C@@]45OC[C@@H](O6)[C@H]([C@@H]4OC(C)(O5)C)OC6(C)C)=O)(=O)=O)O1)C	Impurity	DCTI-C-768	((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methyl ((((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methoxy)carbonyl)sulfamate	950603-46-0	Topiramate Impurity D	C25H39NO15S	625.64
3173		Topiramate N-Isopropyl Impurity	O=S(OC[C@]12OC(C)(C)O[C@H]1[C@@H]3OC(C)(C)O[C@@H]3CO2)(NC(C)C)=O	Impurity	DCTI-C-3018	((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methyl isopropylsulfamate	NA	NA	C15H27NO8S	381.44
3174		Topiramate Isopropyl Sulfate Impurity	O=S(OC[C@]12OC(C)(C)O[C@H]1[C@@H]3OC(C)(C)O[C@@H]3CO2)(OC(C)C)=O	Impurity	DCTI-C-3074	isopropyl (((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methyl) sulfate	NA	NA	C15H26O9S	382.42

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3175		Topiramate Dimer Impurity	O=S(OC[C@]12OC(C)(C)O[C@H]1[C@@H]3OC(C)(C)O[C@@H]3CO2)(NC[C@]45OC(C)(C)O[C@H]4[C@@H]6OC(C)(C)O[C@@H]6CO5)=O	Impurity	DCTI-C-3019	((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methyl (((3aS,5aR,8aR,8bS)-2,2,7,7-tetramethyltetrahydro-3aH-bis([1,3]dioxolo)[4,5-b:4',5'-d]pyran-3a-yl)methyl)sulfamate	NA	NA	C24H39NO13S	581.63
3176	Trametinib	2-fluoro-4-iodoaniline	IC1=CC=C(N)C(F)=C1	Impurity	DCTI-C-3011	2-fluoro-4-iodoaniline	29632-74-4	NA	C6H5FIN	237.02
3177		1-cyclopropyl-3-(2-fluoro-4-iodophenyl)urea	O=C(NC1CC1)NC2=CC=C(C=C2F)I	Impurity	DCTI-C-3012	1-cyclopropyl-3-(2-fluoro-4-iodophenyl)urea	871700-18-4	Trametinib Impurity 7	C10H10FIN2O	320.11
3178		2-cyano-N-cyclopropyl-N-((2-fluoro-4-iodophenyl)carbamoyl)acetamide	O=C(CC#N)N(C(NC1=CC=C(C=C1F)I)=O)C2CC2	Impurity	DCTI-C-3016	2-cyano-N-cyclopropyl-N-((2-fluoro-4-iodophenyl)carbamoyl)acetamide	871700-26-4	Trametinib Impurity 8	C13H11FIN3O2	387.15
3179		6-amino-3-cyclopropyl-1-(2-fluoro-4-iodophenyl)pyrimidine-2,4(1H,3H)-dione	O=C1N(C(C=C(N1C2=CC=C(C=C2F)I)N)=O)C3CC3	Impurity	DCTI-C-3017	6-amino-3-cyclopropyl-1-(2-fluoro-4-iodophenyl)pyrimidine-2,4(1H,3H)-dione	871700-28-6	Trametinib Impurity 9	C13H11FIN3O2	387.15
3180		(E)-N'-(1-cyclopropyl-3-(2-fluoro-4-iodophenyl)-2,6-dioxo-1,2,3,6-tetrahydropyrimidin-4-yl)-N,N-dimethylformimidamide(Trametinib)	CN(/C=N/C(N(C(N1C2CC2)=O)C3=C(F)C=C(I)C=C3)=CC1=O)C	Impurity	DCTI-C-3020	Trametinib Impurity 10	871700-30-0	Trametinib Impurity 10	C16H16FIN4O2	442.23
3181		3-cyclopropyl-1-(2-fluoro-4-iodophenyl)-6-(methylamino)pyrimidine-2,4(1H,3H)-dione	O=C1N(C(C=C(N1C2=CC=C(C=C2F)I)NC)=O)C3CC3	Impurity	DCTI-C-3045	3-cyclopropyl-1-(2-fluoro-4-iodophenyl)-6-(methylamino)pyrimidine-2,4(1H,3H)-dione	871700-22-0	Trametinib impurity 11	C14H13FIN3O2	401.18
3182		3-cyclopropyl-1-(2-fluorophenyl)-5-hydroxy-6,8-dimethylpyrido[2,3-d]pyrimidine-2,4,7(1H,3H,8H)-trione	O=C(N(C1CC1)C(C(C(O)=C2C)=C3N(C)C2=O)=O)N3C4=C(F)C=CC=C4	Impurity	DCTI-C-3560	3-cyclopropyl-1-(2-fluorophenyl)-5-hydroxy-6,8-dimethylpyrido[2,3-d]pyrimidine-2,4,7(1H,3H,8H)-trione	NA	Trametinib Desiodo Impurity 1	C18H16FN3O4	357.34

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3183		N-cyclopropyl-2-((2-fluoro-4-iodophenyl)amino)-4-hydroxy-1,5-dimethyl-6-oxo-1,6-dihydropyridine-3-carboxamide	O=C(C(C(O)=C1C)=C(NC2=CC=C(I)C=C2F)N(C)C1=O)NC3CC3	Impurity	DCTI-C-3616	N-cyclopropyl-2-((2-fluoro-4-iodophenyl)amino)-4-hydroxy-1,5-dimethyl-6-oxo-1,6-dihydropyridine-3-carboxamide	3018911-27-5	Trametinib cyclopropylamide impurity	C17H17FIN3O3	457.24
3184	**trandolapril**	N-nitroso-trandolapril impurity	O=C(OCC)[C@H](CCC1=CC=CC=C1)N(N=O)[C@@H](C)C(N2[C@](CCCC3)([H])[C@@]3([H])C[C@H]2C(O)=O)=O	NDSRI	DCTI-C-3781	(2S,3aR,7aS)-1-(N-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-N-nitroso-L-alanyl)octahydro-1H-indole-2-carboxylic acid	NA	N-nitroso-trandolapril impurity (Mixture of isomers)	C24H33N3O6	459.54
3185	**Trazodone**	1-(3-chloro phenyl)-piperizine	ClC1=CC=CC(N2CCNCC2)=C1.Cl	Labelled Standard	DCTI-A-111	1-(3-chlorophenyl)piperazine hydrochloride	13078-15-4	NSC 49307; mCPP	C10H14Cl2N2 (HCl Salt) C10H13ClN2 (Free base)	233.14 (HCl Salt) 196.78 (Free base)
3186		1(-3-CHLOROPROPYL)4-PHENYL PIPERAZINE HYDROCHLORIDE	ClCCCN(CC1)CCN1C2=CC=CC=C2.Cl	Impurity	DCTI-C-3591	1-(3-chloropropyl)-4-phenylpiperazine hydrochloride	79145-33-8	NA	C13H19ClN2 (Free base) C13H20Cl2N2 (HCl salt)	238.76 (Free base) 275.22 (HCl salt)
3187	**Trehalose**	6,6′-Dibehenate Trehalose	O[C@H]([C@H]([C@@H]([C@H](O[C@H]1[C@H]([C@@H]([C@H]([C@H](COC(CCCCCCCCCCCCCCCCCCCC)=O)O1)O)O)O)O2)O)O)[C@@H]2COC(CCCCCCCCCCCCCCCCCCCCC)=O	impurity	DCTI-C-1178	((2S,2'S,3R,3'R,4R,4'R,5S,5'S,6S,6'S)-oxybis(3,4,5-trihydroxytetrahydro-2H-pyran-6,2-diyl))bis(methylene) didocosanoate	66758-35-8	NA	C56H106O13	987.45
3188	**Triamcinolone**	Triamcinolone Acetonide EP Impurity E	C[C@]12C[C@H](O)[C@@]3(F)C(CCC4=CC(CC[C@@]43C)=O)C1C[C@@H]5[C@@]2(C(CO)=O)OC(C)(C)O5	impurity	DCTI-C-2107	(6aS,6bR,7S,8aS,8bS,11aR)-6b-fluoro-7-hydroxy-8b-(2-hydroxyacetyl)-6a,8a,10,10-tetramethyl-1,2,5,6,6a,6b,7,8,8a,8b,11a,12,12a,12b-tetradecahydro-4H-naphtho[2',1':4,5]indeno[1,2-d][1,3]dioxol-4-one	1524-86-3	1,2-Dihydrotriamcinolone Acetonide; 9-Fluoro-16α,17-(isopropylidenedioxy)Corticosterone; 11β,16α,17α,21-Tetrahydroxy-9α-fluoropregn-4-ene-3,20-dione 16,17-Acetonide; (11β, 16α)-9-Fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy)]	C24H33FO6	436.52
3189		Trifluoperazine Sulfoxide	FC(F)(F)C1=CC2=C(S(C3=CC=CC=C3N2CCCN4CCN(CC4)C)=O)C=C1	impurity	DCTI-C-2140	10-(3-(4-methylpiperazin-1-yl)propyl)-2-(trifluoromethyl)-10H-phenothiazine 5-oxide	1549-88-8	Trifluoperazine S-oxide	C21H24F3N3OS	423.5

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3190	Trifluoperazine	10-(3-(4-methylpiperazin-1-yl)propyl)-2-(trifluoromethyl)-10H-phenothiazine 5,5-dioxide	FC(F)(F)C1=CC2=C(S(C3=CC=CC=C3N2CCCN4CCN(CC4)C)(=O)=O)C=C1	impurity	DCTI-C-2173	10-(3-(4-methylpiperazin-1-yl)propyl)-2-(trifluoromethyl)-10H-phenothiazine 5,5-dioxide	2230802-07-8	Trifluoperazine sulfoxide	C21H24F3N3O2S	439.5
3191		Trifluoperazine N1-Oxide.Formate	FC(F)(F)C1=CC=C(C(N2CCC[N]3([O-])CCN(C)CC3)=C1)SC4=C2C=CC=C4.O=C([H])O	Impurity	DCTI-C-3427	4-methyl-1-(3-(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propyl)-1λ4-piperazin-1-olate. Formate	52172-24-4 (without ionic form and free base)	NA	C21H24F3N3OS-(Free base) /C22H26F3N3O3S-(Formate salt)	423.50(Free base) /469.52 (Formate salt)
3192		Trifluoperazine N-Oxide	FC(F)(F)C1=CC=C(C(N2CCCN3CC[N](C)([O-])CC3)=C1)SC4=C2C=CC=C4.OC(C(F)(F)F)=O	metabolite	DCTI-C-3337	1-methyl-4-(3-(2-(trifluoromethyl)-10H-phenothiazin-10-yl)propyl)-1λ4-piperazin-1-olate.TFA	52172-25-5 (without ionic form and free base)	Trifluoperazine N4'-oxide.TFA	C21H24F3N3OS- (free base); C23H25F6N3O3S- (TFA Salt)	423.5(free base); 537.52 (TFA salt)
3193		Trifluoperazine 7-hydroxy derivative .Formate	FC(F)(F)C1=CC=C(C(N2CCCN3CCN(C)CC3)=C1)SC4=C2C=CC(O)=C4.O=C([H])O	metabolite	DCTI-C-3464	10-(3-(4-methylpiperazin-1-yl)propyl)-8-(trifluoromethyl)-10H-phenothiazin-3-ol formate	62267-37-2 (Free base)	7-Hydroxytrifluoperazine	C21H24F3N3OS(Free base)/ C22H26F3N3O3S (Formate salt)	423.50(Free base)/ 469.52 (Formate salt)
3194	Trihexyphenidyl	(S)-Trihexyphenidyl	O[C@@](C1CCCCC1)(C2=CC=CC=C2)CCN3CCCCC3	Impurity	DCTI-C-717	(S)-1-cyclohexyl-1-phenyl-3-(piperidin-1-yl)propan-1-ol	40520-24-9	(+)-Benzhexol; (+)-Trihexyphenidyl; (S)-Trihexyphenidyl	C20H31NO	301.47
3195		(R)-Trihexyphenidyl	O[C@](C1CCCCC1)(C2=CC=CC=C2)CCN3CCCCC3	Impurity	DCTI-C-718	(R)-1-cyclohexyl-1-phenyl-3-(piperidin-1-yl)propan-1-ol	40520-25-0	(-)-Benzhexol; (-)-Trihexyphenidyl; (R)-Trihexyphenidyl	C20H31NO	301.47
3196		7-Nitrobenzo[d][1,3]dioxole-5-carbaldehyde	O=CC1=CC([N+]([O-])=O)=C(OCO2)C2=C1	Impurity	DCTI-C-3921	7-nitrobenzo[d][1,3]dioxole-5-carbaldehyde	209120-51-4	NA	C8H5NO5	195.13

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3197	Trilaciclib	Trilaciclib Ethyl ester Impurity	ClC1=NC=C(C(OCC)=O)C(N(C2(CN3C(OC(C)(C)C)=O)CCCCC2)CC3=O)=N1	Impurity	DCTI-C-3321	tert-butyl 1-(2-chloro-5-(ethoxycarbonyl)pyrimidin-4-yl)-3-oxo-1,4-diazaspiro[5.5]undecane-4-carboxylate	NA	Trilaciclib 2-Chloro Ethyl ester impurity	C21H29ClN4O5	452.94
3198		Trilaciclib 4-Chloro Ethyl ester Impurity	ClC1=NC(N(C2(CN3C(OC(C)(C)C)=O)CCCCC2)CC3=O)=NC=C1C(OCC)=O	Impurity	DCTI-C-3320	tert-butyl 1-(4-chloro-5-(ethoxycarbonyl)pyrimidin-2-yl)-3-oxo-1,4-diazaspiro[5.5]undecane-4-carboxylate	NA	NA	C21H29ClN4O5	452.94
3199		Trilaciclib Impurity-2	ClC1=NC(N(C2(CN3)CCCCC2)CC3=O)=NC=C1C(OCC)=O	Impurity	DCTI-C-3322	ethyl 4-chloro-2-(3-oxo-1,4-diazaspiro[5.5]undecan-1-yl)pyrimidine-5-carboxylate	NA	NA	C16H21ClN4O3	352.82
3200		Trilaciclib Impurity-1	ClC1=NC=C(C(OCC)=O)C(N(C2(CN3)CCCCC2)CC3=O)=N1	Impurity	DCTI-C-3341	ethyl 2-chloro-4-(3-oxo-1,4-diazaspiro[5.5]undecan-1-yl)pyrimidine-5-carboxylate	NA	NA	C16H21ClN4O3	352.82
3201		Boc Trilaciclib DBU Salt	O=C1C2=C(O)C3=CN=C(Cl)N=C3N2C4(CCCCC4)CN1C(OC(C)(C)C)=O.C56=NCCCN5CCCCC6	Impurity	DCTI-C-3347	tert-butyl 2'-chloro-5'-hydroxy-6'-oxo-6'H-spiro[cyclohexane-1,9'-pyrazino[1',2':1,5]pyrrolo[2,3-d]pyrimidine]-7'(8'H)-carboxylate--2,3,4,6,7,8,9,10-octahydropyrimido[1,2-a]azepine (1:1)	NA	NA	DBU Salt:C28H39ClN6O4;Free Base:C19H23ClN4O4	DBU Salt:559.11;Free Base:406.87
3202		Boc Trilaciclib Impurity	O=C(N(C1)C(C2=CC3=CN=C(Cl)N=C3N2C41CCCCC4)=O)OC(C)(C)C	Impurity	DCTI-C-3363	tert-butyl 2'-chloro-6'-oxo-6'H-spiro[cyclohexane-1,9'-pyrazino[1',2':1,5]pyrrolo[2,3-d]pyrimidine]-7'(8'H)-carboxylate	2170791-57-6	Spiro[cyclohexane-1,9′(6′H)-pyrazino[1′,2′:1,5]pyrrolo[2,3-d]pyrimidine]-7′(8′H)-carboxylic acid, 2′-chloro-6′-oxo-, 1,1-dimethylethyl ester	C19H23ClN4O3	390.87
3203		Chloro Trilaciclib Impurity	O=C1NCC2(N3C1=CC4=CN=C(Cl)N=C43)CCCCC2	Impurity	DCTI-C-3364	2'-chloro-7',8'-dihydro-6'H-spiro[cyclohexane-1,9'-pyrazino[1',2':1,5]pyrrolo[2,3-d]pyrimidin]-6'-one	1374635-90-1	Spiro[cyclohexane-1,9′(6′H)-pyrazino[1′,2′:1,5]pyrrolo[2,3-d]pyrimidin]-6′-one, 2′-chloro-7′,8′-dihydro-	C14H15ClN4O	290.75

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3204		Trilaciclib Impurity-5	O=C1C2=CC3=CN=C(SC)N=C3N2C4(CCCCC4)CN1C(OC(C)(C)C)=O	Impurity	DCTI-C-3431	tert-butyl 2'-(methylthio)-6'-oxo-6'H-spiro[cyclohexane-1,9'-pyrazino[1',2':1,5]pyrrolo[2,3-d]pyrimidine]-7'(8'H)-carboxylate	2170746-99-1	NA	C20H26N4O3S	402.51
3205		Trilaciclib Impurity-6	O=C1C2=CC3=CN=C(SC)N=C3N2C4(CCCCC4)CN1	Impurity	DCTI-C-3432	2'-(methylthio)-7',8'-dihydro-6'H-spiro[cyclohexane-1,9'-pyrazino[1',2':1,5]pyrrolo[2,3-d]pyrimidin]-6'-one	2170747-00-7	NA	C15H18N4OS	302.4
3206		Trilaciclib Impurity-3	O=C(CN1C2=NC(SC)=NC=C2C(OCC)=O)NCC31CCCCC3	Impurity	DCTI-C-3429	ethyl 2-(methylthio)-4-(3-oxo-1,4-diazaspiro[5.5]undecan-1-yl)pyrimidine-5-carboxylate	2170746-95-7	NA	C17H24N4O3S	364.46
3207		Trilaciclib Impurity-4	O=C(CN1C2=NC(SC)=NC=C2C(OCC)=O)N(C(OC(C)(C)C)=O)CC31CCCCC3	Impurity	DCTI-C-3430	tert-butyl 1-(5-(ethoxycarbonyl)-2-(methylthio)pyrimidin-4-yl)-3-oxo-1,4-diazaspiro[5.5]undecane-4-carboxylate	2170746-96-8	NA	C22H32N4O5S	464.58
3208		Trilaciclib Impurity-7	O=C1C2=CC3=CN=CN=C3N2C4(CCCCC4)CN1C(OC(C)(C)C)=O	Impurity	DCTI-C-3433	tert-butyl 6'-oxo-6'H-spiro[cyclohexane-1,9'-pyrazino[1',2':1,5]pyrrolo[2,3-d]pyrimidine]-7'(8'H)-carboxylate	NA	NA	C19H24N4O3	356.43
3209	**Trimebutine**	N-Demethyl Trimebutine Hydrochloride	CCC(C1=CC=CC=C1)(NC)COC(C2=CC(OC)=C(OC)C(OC)=C2)=O.Cl	metabolite	DCTI-C-3331	2-(methylamino)-2-phenylbutyl 3,4,5-trimethoxybenzoate hydrochloride	294882-33-0	N-Desmethyl Trimebutine Hydrochloride; Trimebutine EP Impurity E	C21H28ClNO5 (HCl salt);C21H27NO5 (free base)	409.91 (HCl salt); 373.45 (free base)
3210		N-Desmethyl Nitroso Trimebutine	CC(C1=CC=CC=C1)(N(N=O)C)COC(C2=CC(OC)=C(OC)C(OC)=C2)=O	NDSRI	DCTI-C-3563	2-(methyl(nitroso)amino)-2-phenylbutyl 3,4,5-trimethoxybenzoate	NA	NA	C21H26N2O6	402.45
3211	**Trimetazidine**	N-Nitrosamine Trimetazidine.HCl	COC1=C(OC)C(OC)=CC=C1CN2CCN(N=O)CC2.Cl	NDSRI	DCTI-C-2238	(1-nitroso-4-(2,3,4-trimethoxybenzyl)piperazine hydrochloride.	92432-50-0(free amine)	N-Nitroso Trimetazidine HCl.	C14H21N3O4 (Free amine) C14H22ClN3O4 (HCl salt)	295.34 (Free amine) 331.80 (HCl salt)
3212		Trimetazidine-N-oxide	COC1=CC=C(C(OC)=C1OC)C[N+]2([O-])CCNCC2.O=C(O)C(F)(F)F	metabolite	DCTI-C-2574	1-(2,3,4-trimethoxybenzyl)piperazine 1-oxide 2,2,2-trifluoroacetate	NA	NA	C14H22N2O4(Free Base); C16H23F3N2O6 (TFA Salt)	282.34 (Free Base); 396.36 (TFA Salt)
3213		2-(N-methylamino)-1,3-propanediol (MMAPD) Hydrochloride	OCC(NC)CO.Cl	impurity	DCTI-C-1310	2-(methylamino)propane-1,3-diol hydrochloride	785816-82-2	NA	C4H12ClNO2 (salt) C4H11NO2 (Free Base)	141.59 (salt) 105.13 (Free Base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3214	**Tromethamine**	2-(N-methylamino) -2-Hydroxymethyl-1,3-propanediol (MMTA) Hydrochloride	OCC(CO)(NC)CO.Cl	impurity	DCTI-C-1311	2-(hydroxymethyl)-2-(methylamino)propane-1,3-diol hydrochloride	74178-02-2 (Free base)	NA	C5H14ClNO3 (salt) C5H13NO3 (Free Base)	171.62 (salt) 135.16 (Free Base)
3215		2-(N,N-dimethylamino)-2-Hydroxymethyl-1,3-propanediol (DMTA) Hydrochloride	OCC(CO)(N(C)C)CO.Cl	impurity	DCTI-C-1312	2-(dimethylamino)-2-(hydroxymethyl)propane-1,3-diol hydrochloride	22578-93-4	NA	C6H16ClNO3 (salt) C6H15NO3 (Free Base)	185.65 (salt) 149.19 (Free Base)
3216	**Ubidecarenone**	Ubidecarenone Impurity E	OC1=C(OC)C(OC)=C2C(C=C[C@](CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/CC/C=C(C)/C)(C)O2)=C1C	Impurity	DCTI-C-3628	(R)-7,8-dimethoxy-2,5-dimethyl-2-((3E,7E,11E,15E,19E,23E,27E,31E)-4,8,12,16,20,24,28,32,36-nonamethylheptatriaconta-3,7,11,15,19,23,27,31,35-nonaen-1-yl)-2H-chromen-6-ol	2382-48-1	Ubidecarenone EP Impurity E; Ubichromenol; Coenzyme Q10 (Ubiquinones)	C59H90O4	863.37
3217		N,N-Didesmethyl Ulipristal Acetate	C[C@@]12[C@](C(C)=O)(OC(C)=O)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@@H](C5=CC=C(N)C=C5)C2)=O	metabolite	DCTI-C-083	(8S,11R,13S,14S,17R)-17-acetyl-11-(4-aminophenyl)-13-methyl-3-oxo-2,3,6,7,8,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	244206-49-3	CDB 2914; EllaOne; HRP 2000; RTI 3021-012; RU 44675; VA 2914	C28H33NO4	447.58
3218		N-desmethyl Ulipristal Acetate	C[C@@]12[C@](C(C)=O)(OC(C)=O)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@@H](C5=CC=C(NC)C=C5)C2)=O	metabolite	DCTI-C-093	(8S,11R,13S,14S,17R)-17-acetyl-13-methyl-11-(4-(methylamino)phenyl)-3-oxo-2,3,6,7,8,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	159681-66-0	CDB 3877; N-Monodemethyl CDB 2914	C29H35NO4	461.6
3219		N,N-Di desmethyl Ulipristal	C[C@@]12[C@](C(C)=O)(O)CCC1C3CCC4=CC(CCC4=C3[C@@H](C5=CC=C(N)C=C5)C2)=O	metabolite	DCTI-C-159	11β-(4-aminophenyl)-17α-hydroxy-19-norpregna-4,9-diene-3,20-dione	244206-52-8	NA	C26H31NO3	405.54
3220		N-desmethyl Ulipristal	C[C@@]12[C@](C(C)=O)(O)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@@H](C5=CC=C(NC)C=C5)C2)=O	metabolite	DCTI-C-222	(8S,11R,13S,14S,17R)-17-acetyl-17-hydroxy-13-methyl-11-(4-(methylamino)phenyl)-1,2,6,7,8,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one	159681-67-1	NA	C27H33NO3	419.57

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3221	Ulipristal	Ulipristal Impurity-1	C[C@@]12[C@](C(C)=O)(OC(C)=O)CC[C@@]1([H])[C@]3([H])CCC4=C(CCC(C4)=O)C3=C(C5=CC=C(N(C)C)C=C5)C2	Impurity	DCTI-C-199	(8S,13S,14S,17R)-17-acetyl-11-(4-(dimethylamino)phenyl)-13-methyl-3-oxo-2,3,4,6,7,8,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	NA	NA	C30H37NO4	475.63
3222		Ulipristal Impurity-2	C[C@@]12[C@](C(C)=O)(OC(C)=O)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@H](C5=CC=C(N(C)C)C=C5)C2)=O	Impurity	DCTI-C-252	(8S,11S,13S,14S,17R)-17-acetyl-11-(4-(dimethylamino)phenyl)-13-methyl-3-oxo-2,3,6,7,8,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-17-yl acetate	1655514-74-1	NA	C30H37NO4	475.63
3223		Ulipristal Impurity-3	C[C@@]12[C@](C(C)=O)(OC(C)=O)CC[C@@]1([H])[C@]3([H])CCC4=C(C=CC(O)=C4)[C@@]3([H])[C@@H](C5=CC=C(N(C)C)C=C5)C2	Impurity	DCTI-C-200	(8S,9R,11S,13S,14S,17R)-17-acetyl-11-(4-(dimethylamino)phenyl)-3-hydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-17-yl acetate	NA	NA	C30H37NO4	475.63
3224		Ulipristal acetate N-Oxide	C[C@@]12[C@](C(C)=O)(OC(C)=O)CC[C@@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@@H](C5=CC=C([N+](C)([O-])C)C=C5)C2)=O	Impurity	DCTI-C-269	4-((8S,11R,13S,14S,17R)-17-acetoxy-17-acetyl-13-methyl-3-oxo-2,3,6,7,8,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-11-yl)-N,N-dimethylaniline oxide	1927850-00-7	NA	C30H37NO5	491.63
3225		Diketal intermediate-1	OC1(C#N)CCC2C(C3=CC[C@@]21C)CCC4=C3CCC5(OCCO5)C4	Impurity	DCTI-C-671	(13S)-17-hydroxy-13-methyl-1,2,4,6,7,8,12,13,14,15,16,17-dodecahydrospiro[cyclopenta[a]phenanthrene-3,2'-[1,3]dioxolane]-17-carbonitrile	NA	NA	C21H27NO3	341.45
3226		Diketal intermediate-2	N#CC1(O[Si](C)(C)CCl)CCC2C(C3=CC[C@@]21C)CCC4=C3CCC5(OCCO5)C4	Impurity	DCTI-C-672	(13S)-17-(((chloromethyl)dimethylsilyl)oxy)-13-methyl-1,2,4,6,7,8,12,13,14,15,16,17-dodecahydrospiro[cyclopenta[a]phenanthrene-3,2'-[1,3]dioxolane]-17-carbonitrile	NA	NA	C24H34ClNO3Si	448.08

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3227		Diketal intermediate-3	C[C@@]12C(CCC2(O[Si](C)(C)CCl)C(C)=O)C(C3=CC1)CCC4=C3CCC5(OCCO5)C4	Impurity	DCTI-C-673	1-((13S)-17-(((chloromethyl)dimethylsilyl)oxy)-13-methyl-1,2,4,6,7,8,12,13,14,15,16,17-dodecahydrospiro[cyclopenta[a]phenanthrene-3,2'-[1,3]dioxolan]-17-yl)ethan-1-one	NA	NA	C25H37ClO4Si	465.1
3228		Diketal intermediate-4	OC1(C(C)=O)CCC2C(C3=CC[C@@]21C)CCC4=C3CCC5(OCCO5)C4	Impurity	DCTI-C-674	1-((13S)-17-hydroxy-13-methyl-1,2,4,6,7,8,12,13,14,15,16,17-dodecahydrospiro[cyclopenta[a]phenanthrene-3,2'-[1,3]dioxolan]-17-yl)ethan-1-one	NA	NA	C22H30O4	358.48
3229	**Umeclidinium bromide**	4-(Hydroxydiphenylmethyl)-1-(2-hydroxyethyl)-1-azoniabicyclo[2.2.2]octane, bromide	OC(C1=CC=CC=C1)(C2=CC=CC=C2)C3(CC4)CC[N+]4(CC3)CCO.[Br-]	impurity	DCTI-C-2199	4-(hydroxydiphenylmethyl)-1-(2-hydroxyethyl)quinuclidin-1-ium bromide	NA	Umeclidinium Bromide Impurity 3.	C22H28NO2 (free base) C22H28BrNO2 (Salt)	338.47(free base) 418.38 (Salt)
3230		(1-Azabicyclo[2.2.2]octan-4-yl)(diphenyl)methanol	OC(C1=CC=CC=C1)(C23CCN(CC3)CC2)C4=CC=CC=C4	impurity	DCTI-C-2200	diphenyl(quinuclidin-4-yl)methanol	461648-39-5	NA	C20H23NO	293.41
3231	**Valbenazine**	Valbenazine N-Oxide Impurity	CC(C[C@@H]1CN2(CCC3=C([C@H]2C[C@H]1OC([C@@H](N)C(C)C)=O)C=C(OC)C(OC)=C3)=O)C.O=CO	impurity	DCTI-C-2174	(2R,3R,11bR)-2-((L-valyl)oxy)-3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydropyrido[2,1-a]isoquinoline 5(2H)-oxide formate	NA	N-Oxide Impurity; (2R,3R,11bR)-9, 10-dimethoxy-3-isobutyl-5-oxy-1H,2H,3H,4H,6H, 7H, 11bH-pyrido[2, 1-a] isoquinolin-2-yl (2S)-2-amino-3-methylbutanoate	C24H38N2O5 (Free base) C25H40N2O7 (Formate salt)	434.58 (Free base) 480.60 (Formate salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3232	Valacyclovir	Bis Valacyclovir	O=C1NC(NCNC(N2)=NC3=C(N=CN3COCCOC(C(N)C(C)C)=O)C2=O)=NC4=C1N=CN4COCCOC(C(C(C)C)N)=O	impurity	DCTI-C-1115	((((methylenebis(azanediyl))bis(6-oxo-1,6-dihydro-9H-purine-2,9-diyl))bis(methylene))bis(oxy))bis(ethane-2,1-diyl) bis(2-amino-3-methylbutanoate)	NA	Valacyclovir Impurity P (EP), Valaciclovir EP Impurity P, Valaciclovir Dimer	C27H40N12O8	660.69
3233		N-nitroso-N-methyl-valacyclovir	O=C([C@H](C(C)C)N(N=O)C)OCCOCN1C(N=C(N)N2)=C(N=C1)C2=O	NDSRI	DCTI-C-3614	2-((2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy)ethyl N-methyl-N-nitroso-L-valinate	NA	N-Nitroso Valaciclovir Impurity C; N-nitroso-N-methyl-valaciclovir	C14H21N7O5	367.37
3234		N-Nitroso-N-ethyl-valacyclovir (Mixture of isomers)	O=C([C@H](C(C)C)N(N=O)CC)OCCOCN1C(N=C(N)N2)=C(N=C1)C2=O	NDSRI	DCTI-C-3627	2-((2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy)ethyl N-ethyl-N-nitroso-L-valinate	NA	N-Nitroso Valaciclovir EP Impurity D; N-Nitroso N-Ethyl Valaciclovir	C15H23N7O5	381.39
3235	Valganciclovir	Isovalganciclovir	O=C1C2=C(N(COCC(O)COC([C@@H](N)C(C)C)=O)C=N2)N=C(N)N1.Cl	impurity	DCTI-C-1071	3-((2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy)-2-hydroxypropyl L-valinate hydrochloride	NA	NA	C14H22N6O5 (Free Base) C14H23ClN6O5 (HCl Salt)	354.37 (Free Base) 390.82 (HCl Salt)
3236		2-amino-9-(methoxymethyl)-1,9-dihydro-6H-purin-6-one	NC(N1)=NC(N(COC)C=N2)=C2C1=O	impurity	DCTI-C-1099	2-amino-9-(methoxymethyl)-1,9-dihydro-6H-purin-6-one	1202645-50-8	2-Amino-1,9-dihydro-9-(methoxymethyl)-6H-purin-6-one 2-Amino-9-(methoxymethyl)-9H-purin-6-ol	C7H9N5O2	195.18
3237		Chloro Diastereoisomer of Valganciclovir	O=C1C2=C(N(COC(COC([C@H](C(C)C)N)=O)CCl)C=N2)N=C(N)N1.O=CO	impurity	DCTI-C-2175	2-((2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl) methoxy)-3-chloropropyl L-valinate formate	1654737-32-2	NA	C14H21ClN6O4 (Free base) C15H23ClN6O6 (Format Salt)	372.81 (Free base) 418.84 (Format Salt)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3238		Valganciclovir Dimer Impurity (Mixture of stereoisomers A, B & C)	O=C1C2=C(N(COC(COC(C(N)C(C)C)=O)CO)C=N2)N=C(NCNC(N3)=NC(N(COC(COC(C(N)C(C)C)=O)CO)C=N4)=C4C3=O)N1	impurity	DCTI-C-1128	((((methylenebis(azanediyl))bis(6-oxo-1,6-dihydro-9H-purine-2,9-diyl))bis(methylene))bis(oxy))bis(3-hydroxypropane-2,1-diyl) bis(2-amino-3-methylbutanoate)	NA	NA	C29H44N12O10	720.75
3239		Valganciclovir N-Valyl Impurity	CC(C)[C@@H](C(OCC(OCN1C=NC2=C1NC(N)=NC2=O)CO)=O)NC([C@H](C(C)C)N)=O	Impurity	DCTI-C-2557	2-((2-amino-6-oxo-3,6-dihydro-9H-purin-9-yl)methoxy)-3-hydroxypropyl L-valyl-L-valinate	897937-73-4	L-Valyl-L-valine 2-[(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)methoxy]-3-hydro xypropyl ester; N-(L-Valyl) Valganciclovir Hydrochloride; Valganciclovir Amide Diastereomer impurity	C19H31N7O6	453.5
3240	**Valproic acid**	2,2-Dipropylpentanenitrile	CCCC(CCC)(CCC)C#N	impurity	DCTI-C-2185	2,2-dipropylpentanenitrile	5340-48-7	Tripropylacetonitrile; Valproic Acid EP Impurity J; 2,2-dipropylvaleronitrile; 4-Cyano-4-propylheptane	C11H21N	167.17
3241		2,2-Dipropylpentanamide	NC(C(CCC)(CCC)CCC)=O	impurity	DCTI-C-2186	2,2-di-n-propyl-valeramide; Valproic Acid EP Impurity G; Pentanamide, 2,2-dipropyl.	52061-73-1	2,2-di-n-propyl-valeramide; Valproic Acid EP Impurity G; Pentanamide, 2,2-dipropyl.	C11H23NO	185.31
3242		5-(4'-(bromomethyl)-[1,1'-biphenyl]-2-yl)-1-trityl-1H-tetrazole	BrCC(C=C1)=CC=C1C2=C(C3=NN=NN3C(C4=CC=CC=C4)(C5=CC=CC=C5)C6=CC=CC=C6)C=CC=C2	impurity	DCTI-C-1302	5-(4'-(bromomethyl)-[1,1'-biphenyl]-2-yl)-1-trityl-1H-tetrazole	124750-51-2	Irbesartan Bromo Impurity; Losartan Bromo N1 Trityl Impurity ; Valsartan Bromo Impurity; TTBB	C33H25BrN4	557.5
3243		5-(4'-(dibromomethyl)-[1,1'-biphenyl]-2-yl)-1-trityl-1H-tetrazole	BrC(Br)C(C=C1)=CC=C1C2=C(C3=NN=NN3C(C4=CC=CC=C4)(C5=CC=CC=C5)C6=CC=CC=C6)C=CC=C2	impurity	DCTI-C-1304	5-(4'-(dibromomethyl)-[1,1'-biphenyl]-2-yl)-1-trityl-1H-tetrazole	358685-13-9	Candesartan Dibromo Impurity; Olmesertan Dibromo Derivative Impurity; Dibromo TTBB; Irbesartan Dibromo Impurity; Losartan Dibromo Impurity; Valsartan Dibromo Impurity	C33H24Br2N4	636.39

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3244		Desvaleryl Valsartan N-Nitroso Impurity	CC(C)[C@H](N(CC1=CC=C(C2=CC=CC=C2C3=NNN=N3)C=C1)N=O)C(O)=O	NDSRI	DCTI-C-2218	N-((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-N-nitroso-L-valine.	2254485-68-0	Valsartan N-Nitroso Analog; Desvaleryl Valsartan N-Nitroso Impurity (Mixture of isomers).	C19H20N6O3	380.41
3245		4'-(azidomethyl)-[1,1'-biphenyl]-2-carbonitrile	[N-]=[N+]=NCC1=CC=C(C2=CC=CC=C2C#N)C=C1	impurity	DCTI-C-1435	4'-(azidomethyl)-[1,1'-biphenyl]-2-carbonitrile	133690-91-2	Valsartan Impurity; 4'-(azidomethyl)-2-biphenylcarbonitrile; [1,1'-Biphenyl]-2-carbonitrile,4'-(azidomethyl)-	C14H10N4	234.26
3246		Triphenylmethyl Azide	[N-]=[N+]=NC(C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3	impurity	DCTI-C-1651	(azidomethanetriyl)tribenzene	NA	NA	C19H15N3	285.35
3247		4'-(azidomethyl)-[1,1'-biphenyl]-2-carboxamide	NC(C1=CC=CC=C1C2=CC=C(CN=[N+]=[N-])C=C2)=O	impurity	DCTI-C-1639	4'-(azidomethyl)-[1,1'-biphenyl]-2-carboxamide	NA	4’-(azidomethyl)-[1,1’-biphenyl]-2-formamide(AZBX)	C14H12N4O	252.28
3248		4'-(azidomethyl)-[1,1'-biphenyl]-2-carboxylic acid	OC(C1=CC=CC=C1C2=CC=C(CN=[N+]=[N-])C=C2)=O	impurity	DCTI-C-1640	4'-(azidomethyl)-[1,1'-biphenyl]-2-carboxylic acid	NA	4’-(azidomethyl)-[1,1’-biphenyl]-2-metanoic acid(AZBA)	C14H11N3O2	253.26
3249	Valsartan	4'-(bromomethyl)-[1,1'-biphenyl]-2-carbonitrile	BrCC(C=C1)=CC=C1C2=CC=CC=C2C#N	impurity	DCTI-C-1637	4'-(bromomethyl)-[1,1'-biphenyl]-2-carbonitrile	114772-54-2	4-Bromomethyl-2-cyanobiphenyl; Br-OTBN	C14H10BrN	272.14

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3250	Valsartan	R-Valsartan	CC(C)[C@H](C(O)=O)N(C(CCCC=O)CC1=CC=C(C2=CC=CC=C2C3=NN=NN3)C=C1	Impurity	DCTI-C-037	N-((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-N-pentanoyl-D-valine	137862-87-4	USP Valsartan Related Compound A; Valsartan USP Related Compound A; CGP 49309	C24H29N5O3	435.53
3251		Valsartan Related Compound-D	CC(C)[C@@H](C(O)=O)NCC1=CC=C(C2=CC=CC=C2C3=NN=NN3)C=C1	Impurity	DCTI-C-051	((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-L-valine	676129-92-3	NA	C19H21N5O2	351.41
3252		Valsartan Related compound B	CC(C)[C@@H](C(O)=O)N(C(CCC)=O)CC1=CC=C(C2=CC=CC=C2C3=NN=NN3)C=C1	Impurity	DCTI-C-250	N-((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-N-butyryl-L-valine	952652-79-8	Valsartan USP Related Compound B	C23H27N5O3	421.5
3253		Valsartan Impurity F Methyl ester	CC(C)[C@H](N(C1=CC=C(C2=C(C3=NN=NN3)C=CC=C2)C=C1)C)C(OC)=O	Impurity	DCTI-C-403	methyl N-(2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)-N-methyl-L-valinate	NA	NA	C20H23N5O2	365.44

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3254		Valsartan Related Compound C	CC(C)[C@H](N(CC1=CC=C(C2=CC=CC=C2C3=NN=NN3)C=C1)C(CCCC)=O)C(OCC4=CC=CC=C4)=O	Impurity	DCTI-C-1523	Benzyl N-((2'-(2H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-N-pentanoyl-L-valinate	137863-20-8	Valsartan EP Impurity B; Valsartan USP Related Compound C; Valsartan Benzyl Ester	C31H35N5O3	525.65
3255		5-(4'-(azidomethyl)-[1,1'-biphenyl]-2-yl)-1H-tetrazole	[N-]=[N+]=NCC1=CC=C(C2=CC=CC=C2C3=NN=NN3)C=C1	impurity	DCTI-C-1216	5-(4'-(azidomethyl)-[1,1'-biphenyl]-2-yl)-1H-tetrazole	152708-24-2	Valsartan Impurity 13	C14H11N7	277.29
3256	**Vardenafil**	Vardenafil HCl (Z isomer imp)	CCOC(C(O/C(C(OCC)=O)=C(C)\NC(CCC)=O)=O)=O	Impurity	DCTI-C-1755	(Z)-3-butyramido-1-ethoxy-1-oxobut-2-en-2-yl ethyl oxalate	NA	NA	C14H21NO7	315.32
3257		Varenicline impurity I	O=C(C(F)(F)F)N1CC2C3=CC4=C(C=C3C(C2)C1)N=CC=N4	Impurity	DCTI-C-2637	2,2,2-trifluoro-1-(6,7,9,10-tetrahydro-8H-6,10-methanoazepino[4,5-g]quinoxalin-8-yl)ethan-1-one	230615-70-0	N-trifluoroacetyl Varenicline	C15H12F3N3O	307.28
3258		Depyrazine 7,8-Dinitrophenyl Varenicline	O=[N+](C1=C([N+]([O-])=O)C=C2C(C3CNCC2C3)=C1)[O-]	Impurity	DCTI-C-2638	7,8-dinitro-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepine	230615-08-4	NA	C11H11N3O	249.23

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3259	Varenicline impurity	Varenicline ortho-Dinitro Impurity	O=C(C(F)(F)F)N1CC2C3=CC([N+]([O-])=O)=C(C=C3C(C2)C1)[N+]([O-])=O	Impurity	DCTI-C-2639	1-(7,8-dinitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one	230615-59-5	Varenicline Impurity 14	C13H10F3N3O5	345.23
3260		Varenicline impurity II	C12=C(N=CN2)C=C(C3CNCC4C3)C4=C1	Impurity	DCTI-C-2640	1,5,6,7,8,9-hexahydro-5,9-methanoimidazo[4',5':4,5]benzo[1,2-d]azepine	357424-12-5	MNA	C12H13N3	199.25
3261		Varenicline ortho-Diamino Impurity	NC1=CC2=C(C3CN(C(C(F)(F)F)=O)CC2C3)C=C1N	Impurity	DCTI-C-2641	1-(7,8-diamino-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one	230615-69-7	NA	C13H14F3N3O	285.27
3262		Trifluroacetyl Varenicline Hydroxymethyl Impurity	O=C(N1CC(C2)C3=C(C2C1)C=C4N=C(CO)C=NC4=C3)C(F)(F)F	Impurity	DCTI-C-2552	2,2,2-trifluoro-1-(2-(hydroxymethyl)-6,7,9,10-tetrahydro-8H-6,10-methanoazepino[4,5-g]quinoxalin-8-yl)ethan-1-one	NA	2,2,2-trifluoro-1-(2-(hydroxymethyl)-6,7,9,10-tetrahydro-8H-6,10-methanoazepino[4,5-g]quinoxalin-8-yl)ethan-1-one(Varenicline impurities)	C16H14F3N3O2	337.3
3263		Methyl Varenicline Impurity	CC1=NC2=CC3=C([C@]4([H])CNC[C@@]3([H])C4)C=C2N=C1	Impurity	DCTI-C-2577	(6R,10S)-2-methyl-7,8,9,10-tetrahydro-6H-6,10-methanoazepino[4,5-g]quinoxaline	1333145-89-3	Methyl Varenicline: Varenicline 2-Methyl	C14H15N3 (Free base)	225.30 (Free base)
3264		(1R,5S)-8-nitro-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepin-6-amine and (1S,5R)-9-nitro-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepin-7-amine(Varenicline)	NC1=CC([N+]([O-])=O)=C2C([C@@H]3CNC[C@H]2C3)=C1.NC4=C5C([C@@H]6CNC[C@H]5C6)=CC([N+]([O-])=O)=C4	Impurity	DCTI-C-2566	(1R,5S)-8-nitro-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepin-6-amine and (1S,5R)-9-nitro-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepin-7-amine	NA	Varenicline impurity 3 and 4	C11H13N3O2	NA

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3265		1-((1R,5S)-8-amino-6-nitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one	O=C(N1C[C@H](C2)C3=CC(N)=CC([N+]([O-])=O)=C3[C@H]2C1)C(F)(F)F	Impurity	DCTI-C-2683	1-((1R,5S)-8-amino-6-nitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one	NA	Varenicline 8-amino-6-nitro impurity	C13H12F3N3O3	315.25
3266		1-((1R,5S)-8-amino-6-nitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one and 1-((1R,5S)-6-amino-8-nitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one	O=C(N1C[C@H](C2)C3=CC(N)=CC([N+]([O-])=O)=C3[C@H]2C1)C(F)(F)F.O=C(N4C[C@H](C5)C6=CC([N+]([O-])=O)=CC(N)=C6[C@H]5C4)C(F)(F)F	Impurity	DCTI-C-2562	1-((1R,5S)-8-amino-6-nitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one and 1-((1R,5S)-6-amino-8-nitro-1,2,4,5-tetrahydro-3H-1,5-methanobenzo[d]azepin-3-yl)-2,2,2-trifluoroethan-1-one	NA	Varenicline 8-amino-6-nitro impurity and Varenicline 6-amino-8-nitro impurity	C13H12F3N3O3	315.25
3267		Varenicline tartrate adduct	O=C(C(O)C(O)C(O)=O)N(C[C@H]1C2)C[C@H]2C3=C1C=C4N=CC=NC4=C3	IMPURITY	DCTI-C-2753	2,3-dihydroxy-4-oxo-4-((6R,10S)-6,7,9,10-tetrahydro-8H-6,10-methanoazepino[4,5-g]quinoxalin-8-yl)butanoic acid	2306217-15-0	NA	C17H17N3O5	343.33
3268		N-Nitroso Varenicline	O=NN(CC1C2)CC2C3=C1C=C(N=CC=N4)C4=C3	NDSRI	DCTI-C-2488	8-nitroso-7,8,9,10-tetrahydro-6H-6,10-methanoazepino[4,5-g]quinoxaline	2755871-02-2	Varenicline Nitroso Impurity 2; N-Nitroso-Varenicline	C13H12N4O	240.27
3269	**Venetoclax**	Venetoclax Impurity-25	FC(F)(F)C(O)=O.O=C(C1=CC=C(N2CCN(CC2)CC3=C(CC(C)(CC3)C)C4=CC=C(Cl)C=C4)C=C1OC5=CC6=C(NC=C6)N=C5)NS(=O)(C7=CC=C(C([N+]([O-])=O)=C7)O)=O	Impurity	DCTI-C-3312	2-((1H-pyrrolo[2,3-b]pyridin-5-yl)oxy)-4-(4-((4'-chloro-5,5-dimethyl-3,4,5,6-tetrahydro-[1,1'-biphenyl]-2-yl)methyl)piperazin-1-yl)-N-((4-hydroxy-3-nitrophenyl)sulfonyl)benzamide 2,2,2-trifluoroacetate	NA	NA	Free base: C39H39ClN6O7STFA Salt: C41H40ClF3N6O9S	Free base:771.29; TFA Salt: 885.31

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3270		5-(3-(4-((4'-chloro-5,5-dimethyl-3,4,5,6-tetrahydro-[1,1'-biphenyl]-2-yl)methyl)piperazin-1-yl)phenoxy)-1H-pyrrolo[2,3-b]pyridine	CC1(C)CCC(CN2CCN(C3=CC(OC4=CN=C(NC=C5)C5=C4)=CC=C3)CC2)=C(C6=CC=C(Cl)C=C6)C1	IMPURITY	DCTI-C-3236	5-(3-(4-((4'-chloro-5,5-dimethyl-3,4,5,6-tetrahydro-[1,1'-biphenyl]-2-yl)methyl)piperazin-1-yl)phenoxy)-1H-pyrrolo[2,3-b]pyridine	NA	Venetoclax Descarboxyl Impurity	C32H35ClN4O	527.11
3271	Venlafaxine	O-Desmethyl venlafaxine N-Oxide	C[N+](C)([O-])CC(C1(O)CCCCC1)C2=CC=C(O)C=C2	Impurity	DCTI-C-329	2-(1-hydroxycyclohexyl)-2-(4-hydroxyphenyl)-N,N-dimethylethan-1-amine oxide	1021933-95-8	NA	C16H25NO3	279.38
3272		Des Venlafaxine related compound B	OC1(CCCCC1)C(CNC)C2=CC=C(C=C2)O.FC(F)(C(O)=O)F	metabolite	DCTI-C-2187	4-(1-(1-hydroxycyclohexyl)-2-(methylamino)ethyl)phenol 2,2,2-trifluoroacetate	135308-74-6 (free acid)	N,O-Didesmethyl Venlafaxine	C15H23NO2 (Free Base) C17H24F3NO4 (Salt)	249.35 (Free Base) 363.38 (Salt)
3273		Des Venlafaxine Impurity-II	CN(C)CC(C1=CCCCC1)C2=CC=C(O)C=C2	Impurity	DCTI-C-330	4-(1-(cyclohex-1-en-1-yl)-2-(dimethylamino)ethyl)phenol	1346600-38-1	NA	C16H23NO	245.37
3274		Didesmethyl Desvenlafaxine	OC1(C(C2=CC=C(O)C=C2)CN)CCCCC1	metabolite	DCTI-C-3366	4-(2-amino-1-(1-hydroxycyclohexyl)ethyl)phenol	149289-29-2	1.O-Desmethyl-N,N-Didesmethyl Venlafaxine 2.1-[2-Amino-1-(4-hydroxyphenyl)ethyl]cyclohexanol 3.O-Desmethyl-N,N-didesmethylvenlafaxine 4.Tridesmethylvenlafaxine	C14H21NO2	235.33
3275		Desvenlafaxine Benzyl Ether	OC1(C(C2=CC=C(OCC3=CC=CC=C3)C=C2)CN(C)C)CCCCC1	Impurity	DCTI-C-3472	1-(1-(4-(benzyloxy)phenyl)-2-(dimethylamino)ethyl)cyclohexan-1-ol	93413-61-7	NA	C23H31NO2	353.51
3276		N-Nitroso-N-Desmethyl-Desvenlafaxine	OC1(CCCCC1)C(CN(C)N=O)C2=CC=C(O)C=C2	NDSRI	DCTI-C-3579	N-(2-(1-hydroxycyclohexyl)-2-(4-hydroxyphenyl)ethyl)-N-methylnitrous amide	NA	N-Nitroso-N-Desmethyl-Desvenlafaxine (Mixture of Isomers)	C15H22N2O3	278.35

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3277		Verapamil EP Impurity-I	COC1=C(OC)C=CC(C(C(C)C)(C#N)CCN(C)CCC2=CC=C(OC)C(OC)=C2)=C1.Cl	Impurity	DCTI-C-165	4-((3,4-dimethoxyphenethyl)(methyl)amino)-2-(3,4-dimethoxyphenyl)-2-isopropylbutanenitrile hydrochloride	1794-55-4	Verapamil EP Impurity I; Verapamil USP Related Compound B	C26H37ClN2O4 (HCl Salt) C26H36N2O4 (Free base)	477.04 (HCl Salt) 440.58 (Free base)
3278		Verapamil EP-Impurity A	COC1=C(OC)C=CC(CCN(C)CCCN(C)CCC2=CC=C(OC)C(OC)=C2)=C1	Impurity	DCTI-C-166	N1,N3-bis(3,4-dimethoxyphenethyl)-N1,N3-dimethylpropane-1,3-diamine	141991-88-0	NA	C25H38N2O4	430.59
3279		Verapamil EP-Impurity B	COC1=C(OC)C=CC(CCNC)=C1	Impurity	DCTI-C-167	2-(3,4-dimethoxyphenyl)-N-methylethan-1-amine	3490-06-0	NSC 187772	C11H17NO2	195.26
3280		Verapamil EP-Impurity C	COC1=C(OC)C=CC(CCN(C)C)=C1	Impurity	DCTI-C-168	2-(3,4-dimethoxyphenyl)-N,N-dimethylethan-1-amine	3490-05-9	NA	C12H19NO2	209.29
3281		Verapamil EP-Impurity E	COC1=C(OC)C=CC(CO)=C1	Impurity	DCTI-C-249	(3,4-dimethoxyphenyl)methanol	93-03-8	Veratralcohol; USP Verapamil Related Compound F; Verapamil EP Impurity E; Verapamil USP Related Compound F	C9H12O3	168.19
3282		Verapamil EP-Impurity G	COC1=C(OC)C=CC(C([H])=O)=C1	Impurity	DCTI-C-259	3,4-dimethoxybenzaldehyde	120-14-9	NSC 24521; NSC 8500; USP Verapamil Related Compound E	C9H10O3	166.18
3283		Verapamil EP-Impurity D	COC1=C(OC)C=C(CCN(C)CCCCl)C=C1	Impurity	DCTI-C-169	3-chloro-N-(3,4-dimethoxyphenethyl)-N-methylpropan-1-amine	36770-74-8	SR 45813; Verapamil EP Impurity D	C14H22ClNO2	271.79

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3284	Verapamil	Verapamil EP-Impurity K	COC1=C(OC)C=CC(C(C#N)C(C)C)=C1	Impurity	DCTI-C-170	2-(3,4-dimethoxyphenyl)-3-methylbutanenitrile	20850-49-1	NA	C13H17NO2	219.28
3285		Verapamil Metabolite/ rac D 617	COC1=C(OC)C=CC(C(C(C)C)(C#N)CCCNC)=C1	metabolite	DCTI-C-596	2-(3,4-dimethoxyphenyl)-2-isopropyl-5-(methylamino)pentanenitrile	34245-14-2	NA	C17H26N2O2	290.41
3286		3-bromo-N-(3,4-dimethoxyphenethyl)-N-methylpropan-1-amine	CN(CCCBr)CCC1=CC(OC)=C(OC)C=C1	impurity	DCTI-C-1050	3-bromo-N-(3,4-dimethoxyphenethyl)-N-methylpropan-1-amine	66618-12-0	NA	C14H22BrNO2	316.24
3287		2-chloro-N-(3,4-dimethoxyphenethyl)-N-methylethan-1-amine	CN(CCCl)CCC1=CC(OC)=C(OC)C=C1.Cl	impurity	DCTI-C-1051	2-chloro-N-(3,4-dimethoxyphenethyl)-N-methylethan-1-amine.HCl	190850-48-7	NA	C13H21Cl2NO2 (HCl Salt) C13H20ClNO2 (Free base)	294.22 (HCl Salt) 257.76 (Free base)
3288		2-(3,4-dimethoxyphenyl)-2-isopropyl-5-oxopentanenitrile	COC1=C(OC)C=CC(C(C(C)C)(C#N)CCC([H])=O)=C1	impurity	DCTI-C-1090	2-(3,4-dimethoxyphenyl)-2-isopropyl-5-oxopentanenitrile	27339-25-9	NA	C16H21NO3	275.35
3289		5-((3,4-dimethoxyphenethyl)(methyl)amino)-2-(4-hydroxy-3-methoxyphenyl)-2-isopropylpentanenitrile	OC1=C(OC)C=C(C(C(C)C)(C#N)CCCN(C)CCC2=CC=C(OC)C(OC)=C2)C=C1	metabolite	DCTI-C-1187	5-((3,4-dimethoxyphenethyl)(methyl)amino)-2-(4-hydroxy-3-methoxyphenyl)-2-isopropylpentanenitrile	NA	NA	C26H36N2O4	440.58

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3290		Verapamil EP Impurity-M Hydrochloride	CC(C)C(CCCN(CCCC(C(C)C)(C#N)C1=CC(OC)=C(OC)C=C1)CCC2=CC=C(OC)C(OC)=C2)(C#N)C3=CC(OC)=C(OC)C=C3.Cl	impurity	DCTI-C-1418	5,5'-((3,4-dimethoxyphenethyl)azanediyl)bis(2-(3,4-dimethoxyphenyl)-2-isopropylpentanenitrile) hydrochloride	190850-50-1	NA	C42H57N3O6 (Free base) C42H58N3O6Cl (HCl Salt)	699.93 (Free base) 736.39 (HCl Salt)
3291		5-((3,4-dimethoxyphenethyl)(methyl)amino)-2-(3-hydroxy-4-methoxyphenyl)-2-isopropylpentanenitrile	OC1=C(OC)C=CC(C(C(C)C)(C#N)CCCN(C)CCC2=CC=C(OC)C(OC)=C2)=C1	impurity	DCTI-C-1188	5-((3,4-dimethoxyphenethyl)(methyl)amino)-2-(3-hydroxy-4-methoxyphenyl)-2-isopropylpentanenitrile	NA	NA	C26H36N2O4	440.58
3292		2-(3,4-dimethoxyphenyl)-5-((4-hydroxy-3-methoxyphenethyl)(methyl)amino)-2-isopropylpentanenitrile	CC(C)C(CCCN(C)CCC1=CC=C(O)C(OC)=C1)(C#N)C2=CC(OC)=C(OC)C=C2	metabolite	DCTI-C-1189	2-(3,4-dimethoxyphenyl)-5-((4-hydroxy-3-methoxyphenethyl)(methyl)amino)-2-isopropylpentanenitrile	NA	NA	C26H36N2O4	440.58
3293		Vericiguat Carboxidamide Hydrochloride Impurity	FC(C=N1)=CC2=C1N(CC3=CC=CC=C3F)N=C2C(N)=N.Cl	impurity	DCTI-C-2188	5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboximidamide hydrochloride	1426309-48-9	NA	C14H11F2N5 (Free Base) C14H12ClF2N5 (HCl Salt)	287.27 (Free Base) 323.73 (HCl Salt)
3294		5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboxamide	O=C(C1=NN(CC2=CC=CC=C2F)C3=C1C=C(F)C=N3)N	impurity	DCTI-C-2189	5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboxamide	1361232-73-6	Vericiguat Amide Impurity.	C14H10F2N4O	288.26
3295	**Vericiguat**	Vericiguat Nitrile Impurity	FC(C=N1)=CC2=C1N(CC3=CC=CC=C3F)N=C2C#N	impurity	DCTI-C-2190	5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carbonitrile	1350653-26-7	NA	C14H8F2N4	270.24

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3296		Vericiguat Carboxylic Acid Impurity	O=C(C1=NN(CC2=CC=CC=C2F)C3=C1C=C(F)C=N3)O	impurity	DCTI-C-2191	5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboxylic acid	2135333-04-7	NA	C14H9F2N3O2	289.24
3297		VERICIGUAT-VCG-3 Impurity	NC1=C(N)N=C(C2=NN(CC3=CC=CC=C3F)C4=C2C=C(F)C=N4)N=C1N	Impurity	DCTI-C-3604	2-(5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)pyrimidine-4,5,6-triamine	1350653-30-3	NA	C17H14F2N8	368.35
3298		VERICIGUAT N-Oxide Impurity	NC1=[N+]([O-])C(C2=NN(CC3=CC=CC=C3F)C4=C2C=C(F)C=N4)=NC(N)=C1NC(OC)=O	Metabolites	DCTI-C-3605	4,6-diamino-2-(5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)-5-((methoxycarbonyl)amino)pyrimidine 1-oxide	NA	NA	C19H16F2N8O3	442.39
3299	Vibegron	tert-butyl (1-oxo-1-phenylhex-5-yn-2-yl)carbamate	C#CCCC(NC(OC(C)(C)C)=O)C(C1=CC=CC=C1)=O	Impurity	DCTI-C-2818	tert-butyl (1-oxo-1-phenylhex-5-yn-2-yl)carbamate	1437235-48-7	Carbamic acid, N-(1-benzoyl-4-pentyn-1-yl)-, 1,1-dimethylethyl ester	C17H21NO3	287.36
3300		Vibegron aminoalcohol Isomer-1 (Diastereomer-1)	OC(C1=CC=CC=C1)C(N)CCC#CC2=CC=C([N+]([O-])=O)C=C2.Cl	Impurity	DCTI-C-2854	(1R,2S)-2-amino-6-(4-nitrophenyl)-1-phenylhex-5-yn-1-ol hydrochloride (or) (1S,2R)-2-amino-6-(4-nitrophenyl)-1-phenylhex-5-yn-1-ol hydrochloride	NA	NA	C18H18N2O3(Free Base)C18H19ClN2O3(HCl Salt)	310.35(Free Base)346.81(HCl Salt)
3301		Vibegron aminoalcohol Isomer-2 (Diastereomer-2)	OC(C1=CC=CC=C1)C(N)CCC#CC2=CC=C([N+]([O-])=O)C=C2.Cl	Impurity	DCTI-C-2855	(1R,2S)-2-amino-6-(4-nitrophenyl)-1-phenylhex-5-yn-1-ol hydrochloride (or) (1S,2R)-2-amino-6-(4-nitrophenyl)-1-phenylhex-5-yn-1-ol hydrochloride	NA	NA	C18H18N2O3(Free Base)C18H19ClN2O3(HCl Salt)	310.35(Free Base)346.81(HCl Salt)
3302		Vibegron Boc-aminoalcohol Intermediate	O=C(OC(C)(C)C)N[C@H](CCC#CC1=CC=C([N+]([O-])=O)C=C1)[C@H](O)C2=CC=CC=C2	Impurity	DCTI-C-2856	tert-butyl((1R,2R)-1-hydroxy-6-(4-nitrophenyl)-1-phenylhex-5-yn-2-yl) carbamate	NA	NA	C23H26N2O5	410.47
3303		Vibegron Boc aminoalcohol impurity 1	O=C(OC(C)(C)C)N[C@H](CCC#C)[C@H](O)C1=CC=CC=C1	Impurity	DCTI-C-2876	tert-butyl ((1R,2R)-1-hydroxy-1-phenylhex-5-yn-2-yl)carbamate	1437235-52-3	Vibegron Boc aminoalcohol alkyne impurity	C17H23NO3	289.38

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3304		6(R)-4,6,7,8-tetrahydro-N-(4-(((2S,5R)-5-((R)-hydroxy(phenyl)methyl)pyrrolidin-2-yl)methyl)phenyl)-4oxopyrrolo[1,2-a]pyrimidine-6-carboxamide(Vibegron)	O[C@H](C1=CC=CC=C1)[C@](CC2)([H])N[C@@H]2CC(C=C3)=CC=C3NC([C@@H]4N5C(CC4)=NC=CC5=O)=O	Impurity	DCTI-C-2982	(R)-N-(4-(((2S,5R)-5-((R)-hydroxy(phenyl)methyl)pyrrolidin-2-yl)methyl)phenyl)-4-oxo-4,6,7,8-tetrahydropyrrolo[1,2-a]pyrimidine-6-carboxamide	NA	6R Isomer of Vibegron, Vibegron 6R isomer	C26H28N4O3	444.54
3305		Vibegron aminoalcohol Isomer-3 (Enantiomer)	O[C@@H](C1=CC=CC=C1)[C@@H](N)CCC#CC2=CC=C([N+]([O-])=O)C=C2.Cl	Impurity	DCTI-C-2880	(1S,2S)-2-amino-6-(4-nitrophenyl)-1-phenylhex-5-yn-1-ol hydrochloride	NA	NA	C18H18N2O3(Free Base)C18H19ClN2O3(HCl Salt)	310.35(Free Base)346.81(HCl Salt)
3306	**Vigabatrin**	N-Carboxymethyl vinylpyrrolidinone	O=C1N(CC(O)=O)C(C=C)CC1	Impurity	DCTI-C-3561	2-(2-oxo-5-vinylpyrrolidin-1-yl)acetic acid	2324151-81-5	NA	C8H11NO3	169.18
3307		Vigabatrin Related Impurity	C=CC(CC1)N(CC(OC)=O)C1=O	Impurity	DCTI-C-3594	methyl 2-(2-oxo-5-vinylpyrrolidin-1-yl)acetate	2324144-19-4	NA	C9H13NO3	183.21
3308		Vigabatrin impurity A	O=C1NC(C=C)CC1	Impurity	DCTI-C-3593	5-vinylpyrrolidin-2-one	7529-16-0	Vigabatrin Related Compound A; 5-Vinylpyrrolidone; Vigabatrin EP Impurity A	C6H9NO	111.14
3309		N-3-Oxocarboxypentyl vinylpyrrolidinone Lithium	O=C1CCC(C=C)N1CCC(CCC(O[Li])=O)=O	Impurity	DCTI-C-3670	lithium 4-oxo-6-(2-oxo-5-vinylpyrrolidin-1-yl)hexanoate	NA	NA	C12H16LiNO4	245.2
3310		Vilanterol Dimer impurity	OC1=CC=C(C(O)CN(CC2=CC(C(O)CNCCCCCCOCCOCC3=C(Cl)C=CC=C3Cl)=CC=C2O)CCCCCCOCCOCC4=C(Cl)C=CC=C4Cl)C=C1CO	Impurity	DCTI-C-461	2-(((6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)(2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)amino)methyl)-4-(2-((6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)amino)-1-hydroxyethyl)phenol	2057437-62-2	Vilanterol impurity-11	C48H64Cl4N2O9	954.85

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3311	Vilanterol	VLT Aldehyde Impurity	Clc1cccc(Cl)c1COCCOCCCCCCNC[C@H](O)c2cc(C=O)c(O)cc2	impurity	DCTI-C-1261	(R)-5-(2-((6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)amino)-1-hydroxyethyl)-2-hydroxybenzaldehyde	2514696-13-8	Vilanterol aldehyde impurity	C24H31Cl2NO5	484.41
3312		S-Vilanterol	Clc1cccc(Cl)c1COCCOCCCCCCNC[C@@H](O)c2cc(CO)c(O)cc2	Impurity	DCTI-C-799	(S)-4-(2-((6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)amino)-1-hydroxyethyl)-2-(hydroxymethyl)phenol	NA	Vilanterol-S-Isomer	C24H33Cl2NO5	486.43
3313		S-Vilanterol trifenatate	Clc1cccc(Cl)c1COCCOCCCCCCNC[C@@H](O)c2cc(CO)c(O)cc2.O=C(O)C(C3=CC=CC=C3)(C4=CC=CC=C4)C5=CC=CC=C5	Impurity	DCTI-C-800	(S)-4-(2-((6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)amino)-1-hydroxyethyl)-2-(hydroxymethyl)phenol 2,2,2-triphenylacetate	NA	NA	C44H49Cl2NO7 (Salt) C24H33Cl2NO5 (Free base)	774.78 (Salt) 486.43 (Free base)
3314		vilanterol impurity -28	ClC1=C(COCCOCCCCCCBr)C(Cl)=CC=C1	Impurity	DCTI-C-2614	2-[[2-[[6-bromohexyl]oxy]ethoxy]methyl]-1,3-dichlorobenzene	503070-57-3	vilanterol RC5	C15H21BrCl2O2	384.14
3315		Vilanterol Impurity 29	CC1(C)OCC2=C(O1)C=CC([C@@H]3CNC(O3)=O)=C2	Impurity	DCTI-C-2615	(R)-5-(2,2-dimethyl-4H-benzo[d][1,3]dioxin-6-yl)oxazolidin-2-one	452339-73-0	NA	C13H15NO4	249.27
3316		6-(2-((2,6-Dichlorobenzyl)oxy)ethoxy) hexan-1-amine	NCCCCCCOCCOCC1=C(Cl)C=CC=C1Cl	metabolite	DCTI-C-2788	6-(2-((2,6-Dichlorobenzyl)oxy)ethoxy)hexan-1-amine	1463889-71-5	NA	C15H23Cl2NO2	320.25

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3317		N-formyl vilanterol	OC1=CC=C([C@@H](O)CN(C=O)CCCCCCOCCCC2=C(Cl)C=CC=C2Cl)C=C1CO	Impurity	DCTI-C-3447	(R)-N-(6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)-N-(2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)formamide	NA	N-formyl vilanterol (Mixture of Isomers)	C25H33Cl2NO6	514.44
3318		M-26 metabolite of Vilanterol	ClC1=C(COCCOCCCCCCNCC(O)=O)C(Cl)=CC=C1	Metabolites	DCTI-C-3675	(6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)glycine	1463889-94-2	NA	C17H25Cl2NO4	378.29
3319		N-Nitroso Vilanterol	ClC1=C(COCCOCCCCCCN(N=O)C[C@H](O)C2=CC=C(O)C(CO)=C2)C(Cl)=CC=C1	NDSRI	DCTI-C-3737	(R)-N-(6-(2-((2,6-dichlorobenzyl)oxy)ethoxy)hexyl)-N-(2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)nitrous amide	NA	N-Nitroso Vilanterol(Mixture of isomers)	C24H32Cl2N2O6	515.43
3320		M-29 metabolite of Vilanterol	OC1=CC=C([C@@H](O)CNCCCCCCOCCO)C=C1CO	Metabolite	DCTI-C-3761	(R)-4-(1-hydroxy-2-((6-(2-hydroxyethoxy)hexyl)amino)ethyl)-2-(hydroxymethyl)phenol	1228049-12-4	NA	C17H29NO5	327.42
3321		M-33 metabolite of Vilanterol	OC1=C(CO)C=C([C@@H](O)CNCCCCCCOCC(O)=O)C=C1	metabolite	DCTI-C-3800	(R)-2-((6-((2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)amino)hexyl)oxy)acetic acid	NA	NA	C17H27NO6	341.4
3322		Octahydro-5H,10H-dipyrrolo[1,2-a:1',2'-d]pyrazine-5,10-dione (Vildagliptin Dipyrroloidine Impurity)	O=C1C2N(CCC2)C(C3CCCN31)=O	Impurity	DCTI-C-278	octahydro-5H,10H-dipyrrolo[1,2-a:1',2'-d]pyrazine-5,10-dione	1756239	L-Proline anhydride; Octahydropyrocoll; Proline; bimol. cyclic peptide	C10H14N2O2	194.23
3323		1-(((1R,3S,5S)-3-aminoadamantan-1-yl)glycyl) pyrrolidine-2-carbonitrile HCl / Vildagliptin Amino Adamantane Impurity	N[C@@]1(CC2C3)C[C@H](C2)C[C@@]3(NCC(N4[C@H](C#N)CCC4)=O)C1.Cl	Impurity	DCTI-C-279	(2S)-1-(((1R,3S,5S)-3-aminoadamantan-1-yl)glycyl)pyrrolidine-2-carbonitrile hydrochloride	875311-29-8 (Free base)	Vildagliptin Amino Adamantane Impurity	C17H27ClN4O (HCl Salt) C17H26N4O (Free base)	338.88 (HCl Salt) 302.42 (Free base)

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3324		Vildagliptin related compound C	O=C(CNC12CC3CC(CC(C3)(C2)O)C1)N4CCC[C@H]4C(O)=O	metabolite	DCTI-C-2176	N-(3-Hydroxytricyclo[3.3.1.13,7]dec-1-yl)glycyl-L-proline	565453-40-9	Vildagliptin Carboxylic Acid Metabolite; N-(3-Hydroxytricyclo[3.3.1.13,7]dec-1-yl)glycyl-L-proline; 1-[2-[(3-hydroxy-1-adamantyl)amino]acetyl]pyrrolidine-2-carboxylic acid; ((1r,3s,5R,7S)-3-hydroxyadamantan-1-yl)glycylproline	C17H26N2O4	322.41
3325		Vildagliptin related compound A	OC(C1)(C2)CC(C3)CC1CC32NCC(O)=O	metabolite	DCTI-C-2177	(3-hydroxyadamantan-1-yl)glycine	1032564-18-3	2-((3-Hydroxyadamantan-1-yl)amino)acetic acid; N-acetic acid-1-aMino-3-adaMantanol; ((1S,3R,5R,7S)-3-hydroxyadamantan-1-yl)glycine; 3-Hydroxy-1-adamantyl-D-glycine; N-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)glycine	C12H19NO3	225.29
3326		Vildagliptin related compound D	O=C(CNC12CC3CC(CC(C3)(C2)O)C1)N4CCC[C@H]4C(OC)=O	impurity	DCTI-C-2178	methyl (3-hydroxyadamantan-1-yl)glycyl-L-prolinate	948574-56-9	Vildagliptin Carboxylic Acid Methyl Ester; methyl ((1r,3s,5R,7S)-3-hydroxyadamantan-1-yl)glycylprolina	C18H28N2O4	336.43
3327		Vildagliptin Nitroso impurity	O[C@@]1(C[C@@H](C2)C3)C[C@H]2C[C@@]3(N(N=O)CC(N4CCC[C@H]4C#N)=O)C1	NDSRI	DCTI-C-1843	N-(2-((S)-2-cyanopyrrolidin-1-yl)-2-oxoethyl)-N-((1r,3R,5R,7S)-3-hydroxyadamantan-1-yl)nitrous amide	NA	Nitroso vildagliptin	C17H24N4O3	332.40
3328		Vildagliptin Mono Keto Impurity	O[C@@]1(CC2C3)C[C@H](C2)C[C@@]3(N4CC(N(CCC5)C5C4=N)=O)C1	Impurity	DCTI-C-280	2-((1R,3S,5R)-3-hydroxyadamantan-1-yl)-1-iminohexahydropyrrolo[1,2-a]pyrazin-4(1H)-one	1789703-37-2	Vildagliptin Related Compound 2; Vildagliptin Cyclo Imidamide	C17H25N3O2	303.41

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3329	Vildagliptin	Vildagliptin Imino Impurity	O[C@@]1(CC2C3)C[C@H](C2)C[C@@]3(/N=C/C(N4[C@H](C#N)CCC4)=O)C1	Impurity	DCTI-C-331	(2S)-1-((E)-2-(((1R,3S,5R)-3-hydroxyadamantan-1-yl)imino)acetyl)pyrrolidine-2-carbonitrile	NA	Vildagliptin Impurity-6; Vildagliptin Impurity-E	C17H23N3O2	301.39
3330		Vildagliptin Dimer Impurity	O[C@@]1(CC2C3)C[C@H](C2)C[C@@]3(N(CC(N4[C@H](C#N)CCC4)=O)CC(N5[C@H](C#N)CCC5)=O)C1	Impurity	DCTI-C-332	(2S,2'S)-1,1'-(2,2'-(((1R,3S,5R)-3-hydroxyadamantan-1-yl)azanediyl)bis(acetyl))bis(pyrrolidine-2-carbonitrile)	1036959-23-5	Vildagliptin Impurity B; Vildagliptin Impurity 2	C24H33N5O3	439.56
3331		1-(2-chloro-2-(((1R,3S,5R)-3-hydroxyadamantan-1-yl)amino)acetyl) pyrrolidine-2-carbonitrile	O[C@@]1(CC2C3)C[C@H](C2)C[C@@]3(NC(Cl)C(N4[C@H](C#N)CCC4)=O)C1	Impurity	DCTI-C-333	(2S)-1-(2-chloro-2-(((1R,3S,5R)-3-hydroxyadamantan-1-yl)amino)acetyl)pyrrolidine-2-carbonitrile	NA	Vildagliptin Chloro Impurity	C17H24ClN3O2	337.85
3332		VDN-Dihydroxy Impurity / 1-(((1r,3R,5S)-3,5-dihydroxyadamantan-1-yl)glycyl) pyrrolidine-2-carbonitrile	O[C@@]1(CC2C3)C[C@@](C2)(O)C[C@@]3(NCC(N4[C@H](C#N)CCC4)=O)C1	Impurity	DCTI-C-334	(2S)-1-(((1r,3R,5S)-3,5-dihydroxyadamantan-1-yl)glycyl)pyrrolidine-2-carbonitrile	NA	Hydroxy Vildagliptin; V-229	C17H25N3O3	319.41
3333		VDN-Pyrazine Impurity / 3-hydroxyhexahydropyrrolo[1,2-a]pyrazine-1,4-dione	O=C(C(O)NC1=O)N2C1CCC2	Impurity	DCTI-C-335	3-hydroxyhexahydropyrrolo[1,2-a]pyrazine-1,4-dione	NA	Vildagliptin Impurity F	C7H10N2O3	170.17
3334		1-methylpyrrolidine-2-carbonitrile (Vildagliptin Carbonitrile Impurity)	CN1C(C#N)CCC1	Impurity	DCTI-C-336	1-methylpyrrolidine-2-carbonitrile	20297-37-4	NA	C6H10N2	110.16

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3335		1-(3-hydroxy-2-((3-hydroxyadamantan-1-yl)amino)-3-methylbutanoyl)pyrrolidine-2-carbonitrile	N#CC1N(C(C(C(C)(O)C)NC23CC4(O)CC(C3)CC(C4)C2)=O)CCC1	Impurity	DCTI-C-366	1-(3-hydroxy-2-((3-hydroxyadamantan-1-yl)amino)-3-methylbutanoyl)pyrrolidine-2-carbonitrile	NA	Vildagliptin impurity-11	C20H31N3O3	361.49
3336		Vildagliptin N-Oxide	N#C[C@H]1N(C(C[NH]([O])C23CC4(O)CC(C3)CC(C4)C2)=O)CCC1	Impurity	DCTI-C-405	(2S)-1-(2-((3-hydroxyadamantan-1-yl)(l1-oxidanyl)-l4-azanyl)acetyl)pyrrolidine-2-carbonitrile	NA	NA	C17H25N3O3	319.41
3337		Vildagliptin Impurity	OC[0:S=N](CC[8]C[7])CC[S=I]H(C@9)CC[S=N]@8(NCC(N[16]C(C(N)=O)=CCC@16)=O)C@1	Impurity	DCTI-C-486	1-(((1R,3S,5R)-3-hydroxyadamantan-1-yl)glycyl)-4,5-dihydro-1H-pyrrole-2-carboxamide	NA	NA	C17H25N3O3	319.41
3338		Vildagliptin Diketo Impurity	O[C@@]1(CC2C3)C[C@H](C2)C[C@@]3(N4CC(N(CCC5)C5C4=O)=O)C1	Impurity	DCTI-C-638	2-((1R,3S,5R)-3-hydroxyadamantan-1-yl)hexahydropyrrolo[1,2-a]pyrazine-1,4-dione	1789703-36-1	Vildagliptin Lactam	C17H24N2O3	304.39
3339		(2R)-1-(Chloroacetyl)-2-pyrrolidinecarbonitrile	O=C(CCl)N1[C@@H](C#N)CCC1	Impurity	DCTI-C-839	(R)-1-(2-chloroacetyl)pyrrolidine-2-carbonitrile	565452-98-4	Vildagliptin Chloroacetyl Nitrile(R)-Isomer	C7H9ClN2O	172.61
3340		3-(4-iodobutyl)-1h-indole-5-carbonitrile	N#CC1=CC2=C(NC=C2CCCCI)C=C1	Impurity	DCTI-C-3095	3-(4-iodobutyl)-1H-indole-5-carbonitrile	692756-88-0	NA	C13H13IN2	324.17

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3341	**Vilazodone**	5-(4-nitrosopiperazin-1-yl)benzofuran-2-carboxamide	NC(C1=CC2=C(O1)C=CC(N(CC3)CCN3N=O)=C2)=O	NDSRI	DCTI-C-3143	5-(4-nitrosopiperazin-1-yl)benzofuran-2-carboxamide	NA	NA	C13H14N4O3	274.28
3342		3-(4-chlorobutyl)-1H-indole-5-carbonitrile	N#CC1=CC2=C(NC=C2CCCCCl)C=C1	Impurity	DCTI-C-3158	3-(4-chlorobutyl)-1H-indole-5-carbonitrile	143612-79-7	NA	C13H13ClN2	232.71
3343	**Viloxazine**	Viloxazine Isomer-2	CCOC1=CC=CC=C1OC[C@@H]2CNCCO2.Cl	impurity	DCTI-C-2192	(S)-2-((2-ethoxyphenoxy)methyl)morpholine hydrochloride	56287-61-7	(S)-Viloxazine, (-)-Viloxazine; (S)-2-(2-Ethoxyphenoxymethyl)tetrahydro-1,4-oxazine hydrochloride	C13H19NO3 (Free Base) C13H20ClNO3 (HCL Salt)	237.30 (Free Base) 273.76 (HCL Salt)
3344		Viloxazine Isomer-1	CCOC1=CC=CC=C1OC[C@H]2CNCCO2.Cl	impurity	DCTI-C-2193	(R)-2-((2-ethoxyphenoxy)methyl)morpholine hydrochloride	56287-63-9	(R)-Viloxazine, (+)-Viloxazine; (R)-2-(2-Ethoxyphenoxymethyl)tetrahydro-1,4-oxazine hydrochloride	C13H19NO3 (Free Base) C13H20ClNO3 (HCL Salt)	237.30 (Free Base) 273.76 (HCL Salt)
3345		N-Nitroso Viloxazine(Mixture of isomers)	CCOC1=CC=CC=C1OCC2OCCN(N=O)C2	NDSRI	DCTI-C-3735	2-((2-ethoxyphenoxy)methyl)-4-nitrosomorpholine	3033383-17-1	NA	C13H18N2O4	266.29
3346	**Vismodegib**	2-chloro-4-(methylsulfonyl)-N-(3-(pyridin-2-yl)phenyl)benzamide	O=S(C1=CC=C(C(NC2=CC(C3=CC=CC=N3)=CC=C2)=O)C(Cl)=C1)(C)=O	IMPURITY	DCTI-C-3490	2-chloro-4-(methylsulfonyl)-N-(3-(pyridin-2-yl)phenyl)benzamide	2117637-61-1	Vismodegib Mono deschloro impurity 1	C19H15ClN2O3S	386.85
3347		N-(4-chloro-3-(pyridin-2-yl)phenyl)-4-(methylsulfonyl)benzamide	O=S(C1=CC=C(C(NC2=CC(C3=CC=CC=N3)=C(Cl)C=C2)=O)C=C1)(C)=O	IMPURITY	DCTI-C-3489	N-(4-chloro-3-(pyridin-2-yl)phenyl)-4-(methylsulfonyl)benzamide	1195072-86-6	Vismodegib Mono deschloro impurity 2	C19H15ClN2O3S	386.85

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3348	**Voglibose**	N-Nitroso Voglibose impurity (Mixture of isomers)	OCC(CO)N(N=O)[C@H]1C[C@@](O)([C@H]([C@@H]([C@H]1O)O)O)CO	NDSRI	DCTI-C-3916	N-(1,3-dihydroxypropan-2-yl)-N-((1S,2S,3R,4S,5S)-2,3,4,5-tetrahydroxy-5-(hydroxymethyl)cyclohexyl)nitrous amide	NA	NA	C10H20N2O8	296.27
3349	**Voriconazole**	Voriconazole Impurity-15	OC(CN1N=CN=C1)(C2=CC=C(F)C=C2F)C(C)C3=NC=NC(C(C4=NC=NC=C4F)C)=C3F	impurity	DCTI-C-2194	2-(2,4-difluorophenyl)-3-(5-fluoro-6-(1-(5-fluoropyrimidin-4-yl)ethyl)pyrimidin-4-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	321589-00-8	4-Pyrimidineethanol, α-(2,4-difluorophenyl)-5-fluoro-6-[1-(5-fluoro-4-pyrimidinyl)ethyl]-β-methyl-α-(1H-1,2,4-triazol-1-ylmethyl)- (9CI, ACI);α-(2,4-Difluorophenyl)-5-fluoro-6-[1-(5-fluoro-4-pyrimidinyl)ethyl]-β-methyl-α-(1H-1,2,4-triazol-1-ylmethyl)-4-	C22H19F4N7O	473.44
3350		Voriconazole impurity-D	C[C@@H]([C@@](CN1C=NC=N1)(C2=C(C=C(C=C2)F)F)O)C3=NC=NC=C3F	impurity	DCTI-C-2195	(2S,3R)-2-(2,4-difluorophenyl)-3-(5-fluoropyrimidin-4-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	137234-63-0	Voriconazole USP Related Compound B ; ent-Voriconazole;Voriconazole (2S,3R)-Enantiomer;(αS,βR)-α-(2,4-Difluorophenyl)-5-fluoro-β-methyl-α-(1H-1,2,4-triazol-1-ylmethyl)-4-pyrimidineethanol;4-Pyrimidineethanol, α-(2,4-difluorophenyl)-5-fluoro-β-methyl-α-(1H-1,2,4-triazol-	C16H14F3N5O	349.32
3351		Voriconazole Diastereomer (2S,3S/2R,3R) impurity	C[C@H](C1=C(F)C=NC=N1)[C@@](CN2C=NC=N2)(O)C3=CC=C(F)C=C3F	impurity	DCTI-C-2196	(2R,3R/2S,3S)-2-(2,4-difluorophenyl)-3-(5-fluoropyrimidin-4-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	239807-03-5	rel-(R,R)-Voriconazole;rel-(αR,βR)-α-(2,4-Difluorophenyl)-5-fluoro-β-methyl-α-(1H-1,2,4-triazol-1-ylmethyl)-4-pyrimidineethanol.	C16H14F3N5O	349.32
3352		Voriconazole EP Impurity A	FC1=CC=C(C(CN2N=CN=C2)=O)C(F)=C1	impurity	DCTI-C-2197	1-(2,4-difluorophenyl)-2-(1H-1,2,4-triazol-1-yl)ethan-1-one	86404-63-9	Voriconazole USP Related Compound C;1-(2,4-Difluorophenyl)-2-(4H-1,3,4-triazol-4-yl)ethan-1-one;2′,4′-Difluoro-2-(1,2,4-triazol-1-yl)acetophenone;2′,4′-Difluoro-2-(1H-1,2,4-triazol-1-yl)acetophenone.	C10H7F2N3O	223.18
3353		Voriconazole EP Impurity C	FC1=CN=CN=C1CC	impurity	DCTI-C-2198	4-ethyl-5-fluoropyrimidine	137234-88-9	4-Ethyl-5-fluoropyrimidine (ACI).	C6H7FN2	126.13

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3354	Vortioxetine	Vortioxetine N-Methyl Impurity	CC1=CC=C(SC2=CC=CC=C2N3CCN(C)CC3)C(C)=C1.Cl	Impurity	DCTI-C-013	1-(2-((2,4-dimethylphenyl)thio)phenyl)-4-methylpiperazine hydrochloride	1293489-87-8	NA	C19H25ClN2S (HCl Salt) C19H24N2S (Free base)	348.93 (HCl Salt) 312.48 (Free base)
3355		Vortioxetine N-Formyl Impurity	CC1=CC=C(SC2=CC=CC=C2N3CCN(C=O)CC3)C(C)=C1	Impurity	DCTI-C-014	4-(2-((2,4-dimethylphenyl)thio)phenyl)piperazine-1-carbaldehyde	2135576-73-5	NA	C19H22N2OS	326.46
3356		Vortioxetine Metabolite HCl salt	CC1=CC(C)=CC=C1SC2=C(N3CCNCC3)C=CC(O)=C2.Cl	metabolite	DCTI-C-3294	3-((2,4-dimethylphenyl)thio)-4-(piperazin-1-yl)phenol hydrochloride	1429751-00-7 (Free Base)	Lu AA39835	Free Base:C18H22N2OS; HCl salt:C18H23ClN2OS	Free Base:314.45; HCl Salt:350.91
3357		N-Nitroso-Vortioxetine	CC1=CC(C)=C(C=C1)SC2=CC=CC=C2N3CCN(N=O)CC3	NDSRI	DCTI-C-3417	1-(2-((2,4-dimethylphenyl)thio)phenyl)-4-nitrosopiperazine	2925447-38-5	NA	C18H21N3OS	327.45
3358	Warfarin	S-Warfarin	O=C1C([C@@H](CC(C)=O)C2=CC=CC=C2)=C(O)C3=C(C=CC=C3)O1	impurity	DCTI-C-2201	(S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-chromen-2-one	5543-57-7	S-(-)-Warfarin ; Warfarin S Isomer ; (-)-Warfarin	C19H16O4	308.33

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3359	Warfarin	R-Warfarin	O=C1C([C@H](CC(C)=O)C2=CC=CC=C2)=C(O)C3=C(C=CC=C3)O1	impurity	DCTI-C-2202	(R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-chromen-2-one	5543-58-8	R-(+)-Warfarin ; Warfarin R Isomer ; (+)-Warfarin	C19H16O4	308.33
3360	zanubrutinib	R-zanubrutinib	O=C(C1=C2NCC[C@H](C3CCN(C(C=C)=O)CC3)N2N=C1C4=CC=C(OC5=CC=CC=C5)C=C4)N	Impurity	DCTI-C-2616	(R)-7-(1-acryloylpiperidin-4-yl)-2-(4-phenoxyphenyl)-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide	1691249-44-1	NA	C27H29N5O3	471.56
3361		zanubrutinib impurity-5(S-isomer)	N#CC1=C2NCC[C@@H](C3CCNCC3)N2N=C1C4=CC=C(OC5=CC=CC=C5)C=C4	Impurity	DCTI-C-2617	(S)-2-(4-phenoxyphenyl)-7-(piperidin-4-yl)-4,5,6,7-tetrahydropyrazolo(1,5-a)pyrimidine-3-carbonitrile	2190506-59-1	NA	C24H25N5O	399.5
3362		7-(1-(2,3-dihydroxypropanoyl)piperidin-4-yl)-2-(4-phenoxyphenyl)-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide	O=C(C1=C2NCCC(C3CCN(C(C(O)CO)=O)CC3)N2N=C1C4=CC=C(OC5=CC=CC=C5)C=C4)N	metabolite	DCTI-C-2279	7-(1-(2,3-dihydroxypropanoyl)piperidin-4-yl)-2-(4-phenoxyphenyl)-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide	NA	Di Hydroxy zanubrutinib	C27H31N5O5	505.58
3363		Zanubrutinib Nitroso Impurity-1	O=C(C1=C2NCCC(C3CCN(N=O)CC3)N2N=C1C4=CC=C(OC5=CC=CC=C5)C=C4)N	Impurity	DCTI-C-2515	7-(1-nitrosopiperidin-4-yl)-2-(4-phenoxyphenyl)-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide	NA	NA	C24H26N6O3	446.51

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3364		Zanubrutinib Nitroso Impurity-2	O=C(C1=C2N(N=O)CCC(C3CCNCC3)N2N=C1C4=CC=C(OC5=CC=CC=C5)C=C4)N	Impurity	DCTI-C-2509	4-nitroso-2-(4-phenoxyphenyl)-7-(piperidin-4-yl)-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide	NA	NA	C24H26N6O3	446.51
3365		N-Nitroso Zanubrutinib	NC(C1=C2N(N=O)CC[C@H](N2N=C1C3=CC=C(C=C3)OC4=CC=CC=C4)C5CCN(C(C=C)=O)CC5)=O	NDSRI	DCTI-C-2412	(S)-7-(1-acryloylpiperidin-4-yl)-4-nitroso-2-(4-phenoxyphenyl)-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide	NA	NA	C27H28N6O4	500.56
3366	Zileuton	2-ABT Impurity	O=C(C)C1=CC2=CC=CC=C2S1	impurity	DCTI-C-943	1-(benzo[b]thiophen-2-yl)ethan-1-one	22720-75-8	NA	C10H8OS	176.23
3367		Zileuton impurity-B	C/C(C1=CC2=CC=CC=C2S1)=N/O	impurity	DCTI-C-944	(Z)-1-(benzo[b]thiophen-2-yl)ethan-1-one oxime	147396-08-5	NA	C10H9NOS	191.25
3368		Zileuton impurity-C	C/C(C1=CC2=CC=CC=C2S1)=N\O	impurity	DCTI-C-945	(E)-1-(benzo[b]thiophen-2-yl)ethan-1-one oxime	147396-07-4	NA	C10H9NOS	191.25
3369		Hydroxy benzo thiophene	OC(C)C1=CC2=CC=CC=C2S1	impurity	DCTI-C-1698	1-(benzo[b]thiophen-2-yl)ethan-1-ol	51868-95-2	NA	C10H10OS	178.25
3370		Zileuton impurity-D	CC(NC(N)=O)C1=CC2=CC=CC=C2S1	impurity	DCTI-C-946	1-(1-(benzo[b]thiophen-2-yl)ethyl)urea	171370-49-3	NA	C11H12N2OS	220.29
3371		Zileuton impurity-A	CC(NO)C1=CC2=CC=CC=C2S1	impurity	DCTI-C-1043	N-(1-(benzo[b]thiophen-2-yl)ethyl)hydroxylamine	118564-89-9	NA	C10H11NOS	193.26

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3372	Ziprasidone	Ziprasidone Related Compound B	O=C1NC2=CC(Cl)=C(CCN3CCN(C4=NSC5=C4C=CC=C5)CC3)C=C2C1=O	impurity	DCTI-C-1390	5-(2-(4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)ethyl)-6-chloroindoline-2,3-dione	1159977-56-6	3-Oxo Ziprasidone	C21H19ClN4O2S	426.92
3373		Ziprasidone Related Compound C	O=C1C(C(C2=CC(CCN3CCN(C4=NSC5=C4C=CC=C5)CC3)=C(Cl)C=C2N6)C6=O)(O)C7=CC(CCN8CCN(C9=NSC%10=C9C=CC=C%10)CC8)=C(Cl)C=C7N1	impurity	DCTI-C-1262	5,5'-bis(2-(4-(benzo[d]isothiazol-3-yl)piperazin-1-yl)ethyl)-6,6'-dichloro-3-hydroxy-[3,3'-biindoline]-2,2'-dione	1303996-68-0	Ziprasidone EP Impurity D; Ziprasidone EP-D (Zipra RC-C)	C42H40Cl2N8O3S2	839.86
3374	Zolmitriptan	N-Nitroso N-Desmethyl Zolmitriptan	O=C1OC[C@H](CC2=CC(C(CCN(N=O)C)C=N3)=C3C=C2)N1	NDSRI	DCTI-C-2587	N-methyl-N-(2-(5-(((S)-2-oxooxazolidin-4-yl)methyl)-3H-indol-3-yl)ethyl)nitrous amide	NA	NA	C15H18N4O3	302.33
3375		4-(dibromomethyl)benzoic acid	OC(C1=CC=C(C(Br)Br)C=C1)=O	Impurity	DCTI-C-307	4-(dibromomethyl)benzoic acid	29045-93-0	p-Toluic acid	C8H6Br2O2	293.94
3376		3,5-dinitro-4-hydroxy acetophenone	OC1=C([N+]([O-])=O)C=C(C(C)=O)C=C1[N+]([O-])=O	Impurity	DCTI-C-337	1-(4-hydroxy-3,5-dinitrophenyl)ethan-1-one	52129-61-0	NA	C8H6N2O6	226.14
3377		n-propyl trifluoroacetate	O=C(OCCC)C(F)(F)F	Impurity	DCTI-C-443	propyl 2,2,2-trifluoroacetate	383-66-4	Propyl perfluoroacetate	C5H7F3O2	156.1

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3378		4-Methoxy-3-methylphenylacetone	COC1=CC=C(CC(C)=O)C=C1C	Impurity	DCTI-C-491	1-(4-methoxy-3-methylphenyl)propan-2-one	16882-23-8	NA	C11H14O2	178.23
3379		3-iodo-2,6-dimethylaniline	NC1=C(C)C(I)=CC=C1C	Impurity	DCTI-C-493	3-iodo-2,6-dimethylaniline	784107-79-5	NA	C8H10IN	247.08
3380		2,4,6-Tribromo methyl benzoate	BrC1=CC(Br)=C(C(OC)=O)C(Br)=C1	Impurity	DCTI-C-342	methyl 2,4,6-tribromobenzoate	14920-88-8	NA	C8H5Br3O2	372.84
3381		Methyl 3-Nitropropanoate	O=C(OC)CC[N+]([O-])=O	Impurity	DCTI-C-597	methyl 3-nitropropanoate	20497-95-4	3-Nitropropanoic acid methyl ester; Methyl β-nitropropionate	C4H7NO4	133.1
3382		2,3-Dinitro phenol	OC1=C([N+]([O-])=O)C([N+]([O-])=O)=CC=C1	Impurity	DCTI-C-623	2,3-dinitrophenol	NA	NA	C6H4N2O5	184.11
3383		2,6-Dinitro phenol	OC1=C([N+]([O-])=O)C=CC=C1[N+]([O-])=O	Impurity	DCTI-C-624	2,6-Dinitro phenol	NA	NA	C6H4N2O5	184.11
3384		4,4-dibromo-3-methyl-2-pyrazolin-5-one	O=C1C(Br)(Br)C(C)=NN1	Impurity	DCTI-C-625	4,4-dibromo-5-methyl-2,4-dihydro-3H-pyrazol-3-one	33549-66-5	NSC 522042	C4H4Br2N2O	255.9
3385		2-Methylbutyl chloroformate	O=C(Cl)OCC(C)CC	Impurity	DCTI-C-647	2-methylbutyl carbonochloridate	20412-39-9	NA	C6H11ClO2	150.6

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3386	2,4,6-Tribromo methyl benzoate	2,6-ditert-butyl-4-hydroxy-4-methylcyclohexa-2,5-dien-1-one	O=C1C(C(C)(C)C)=CC(C)(O)C=C1C(C)(C)C	Impurity	DCTI-C-615	2,6-di-tert-butyl-4-hydroxy-4-methylcyclohexa-2,5-dien-1-one	10396-80-2	NA	C15H24O2	236.36
3387		2,6-ditert-butyl-4-hydroxyperoxy-4-methylcyclohexa-2,5-dien-1-one	O=C1C(C(C)(C)C)=CC(C)(OO)C=C1C(C)(C)C	Impurity	DCTI-C-620	2,6-di-tert-butyl-4-hydroperoxy-4-methylcyclohexa-2,5-dien-1-one	6485-57-0	NA	C15H24O3	252.35
3388		1H-imidazol-1-yl-methanol	OCN1C=CN=C1	Impurity	DCTI-C-662	(1H-imidazol-1-yl)methanol	51505-76-1	NA	C4H6N2O	98.11
3389		5-nitroisophthalic acid (Impurity-O)	O=C(O)C1=CC(C(O)=O)=CC(N(=O)=O)=C1	Impurity	DCTI-C-719	5-nitroisophthalic acid	NA	NA	C8H5NO6	211.13
3390		3-bromo-4-fluoro-N-methylbenzamide	FC1=CC=C(C(NC)=O)C=C1Br	Impurity	DCTI-C-778	3-bromo-4-fluoro-N-methylbenzamide	337536-22-8	NA	C8H7BrFNO	232.05
3391		5-bromo-3-(bromomethyl)-1-tosyl-1H-indole	BrC1=CC=C(N(S(=O)(C2=CC=C(C)C=C2)=O)C=C3CBr)C3=C1	Impurity	DCTI-C-785	5-bromo-3-(bromomethyl)-1-tosyl-1H-indole	NA	NA	C16H13Br2NO2S	443.15

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3392		(5-Bromo-1-Tosyl-1H-Indole-3yl) Methanol	BrC1=CC=C(N(S(=O)(C2=CC=C(C)C=C2)=O)C=C3CO)C3=C1	Impurity	DCTI-C-786	(5-bromo-1-tosyl-1H-indol-3-yl)methanol	NA	NA	C16H14BrNO3S	380.26
3393		2-Bromo 4-fluoro N-methyl benzamide	FC1=CC=C(C(NC)=O)C(Br)=C1	Impurity	DCTI-C-788	2-bromo-4-fluoro-N-methylbenzamide	923138-87-8	NA	C8H7BrFNO	232.05
3394	**3-quinuclidinyl benzilate**	3-quinuclidinyl benzilate	O=C(OC1CN2CCC1CC2)C(C3=CC=CC=C3)(O)C4=CC=CC=C4	impurity	DCTI-C-1140	quinuclidin-3-yl 2-hydroxy-2,2-diphenylacetate	1709855	NA	C21H23NO3	337.42
3395	**5-Pyrimidine Carboxamide**	5-Pyrimidine Carboxamide (OCID 2287)	CSC1=NC(C2=CC=CN=C2)=NC(NC)=C1C(NC3=CC=C(OC)C=C3)=O	impurity	DCTI-C-1142	N-(4-methoxyphenyl)-4-(methylamino)-6-(methylthio)-2-(pyridin-3-yl)pyrimidine-5-carboxamide	929090-16-4	NA	C19H19N5O2S	381.45
3396	**Genirelix**	7-nitrobenzo[d][1,3]dioxole-5-carbaldehyde	O=CC1=CC([N+]([O-])=O)=C2C(OCO2)=C1	impurity	DCTI-C-1526	7-nitrobenzo[d][1,3]dioxole-5-carbaldehyde	209120-51-4	NA	C8H5NO5	195.13

S.No.	API NAME	NAME OF COMPOUND	Smiles	CATEGORY	CAT No	IUPAC NAME	CAS NUMBER	SYNONYMS	MOLECULAR FORMULA	MOLECULAR WEIGHT
3397	**2,4-Dibromo methyl benzoate**	2,4-Dibromo methyl benzoate	O=C(OC)C1=CC=C(Br)C=C1Br	impurity	DCTI-C-1162	methyl 2,4-dibromobenzoate	54335-33-0	NA	C8H6Br2O2	293.94
3398	**(2S)-1-formylpyrrolidine-2-carbonitrile Impurity**	(2S)-1-formylpyrrolidine-2-carbonitrile Impurity	N#C[C@H]1N(C=O)CCC1	Impurity	DCTI-C-2676	(S)-1-formylpyrrolidine-2-carbonitrile	2382059-56-4	(S)-1-formylpyrrolidine-2-carbonitrile (mixture of isomers)	C6H8N2O	124.14
3399	**4-isobutoxy benzaldehyde**	4-isobutoxy benzaldehyde	[H]C(C1=CC=C(OCC(C)C)C=C1)=O	impurity	DCTI-C-1176	4-isobutoxybenzaldehyde	18962-07-7	NSC 68517	C11H14O2	178.23
3400		Methyl 2-(2,3-dichlorobenzylidene)-3-oxobutanoate	CC(C(C(OC)=O)=CC1=CC=CC(Cl)=C1Cl)=O	impurity	DCTI-C-2203	methyl 2-(2,3-dichlorobenzylidene)-3-oxobutanoate	74073-22-6	Methyl 2-[(2,3-dichlorophenyl)methylene]-3-oxobutanoate;Methyl 2-(2,3-dichlorobenzylidene)acetoacetate;Methyl 2-(2,3-dichlorobenzylidine)acetoacetate;Methyl 3-(2,3-dichlorophenyl)-2-acetylacrylate	C12H10Cl2O3	273.11
3401		(2S)-1-formylpyrrolidine-2-carbonitrile	O=CN1CCC[C@H]1C#N	Impurity	DCTI-C-2676	(S)-1-formylpyrrolidine-2-carbonitrile	2382059-56-4	(S)-1-formylpyrrolidine-2-carbonitrile (mixture of isomers)	C6H8N2O	124.14
3402		Phthalic acid impurities	O=C(C1=CC=CC=C1C(OCCO)=O)OCCO	Impurity	DCTI-C-2590	bis(2-hydroxyethyl) phthalate	84-73-1	1,2-bis(2-hydroxyethyl) benzene-1,2-dicarboxylate; bis(2-hydroxyethyl) benzene-1,2-dicarboxylate; 1,2-Benzenedicarboxylic acid, bis(2-hydroxyethyl) ester	C12H14O6 (free acid)	254.24 (free acid)