

Inertsil® WP300 C18

Physical Properties

- Silica : WP300 Series High Purity Silica Gel
- Particle Size : 5 µm
- Surface Area : 150 m²/g
- Pore Size : 300 Å (30 nm)
- Pore Volume : 1.05 mL/g
- Bonded Phase : Octadecyl Groups
- End-capping : Yes
- Carbon Loading : 9 %
- USP Code : L1
- pH Range : 2 ~ 7.5



Inertsil WP300 C18 (wide pore size of 300 Å) columns bring the same legendary performance of Inertsil's narrow-pore HPLC products to columns designed specifically for the reproducible separations of proteins and peptides.

The results of GL Sciences' original end-capping technique are shown in figure 1, which provide high efficiency and good peak shape for proteins and peptides.

Figure 1 : Comparison with other brands

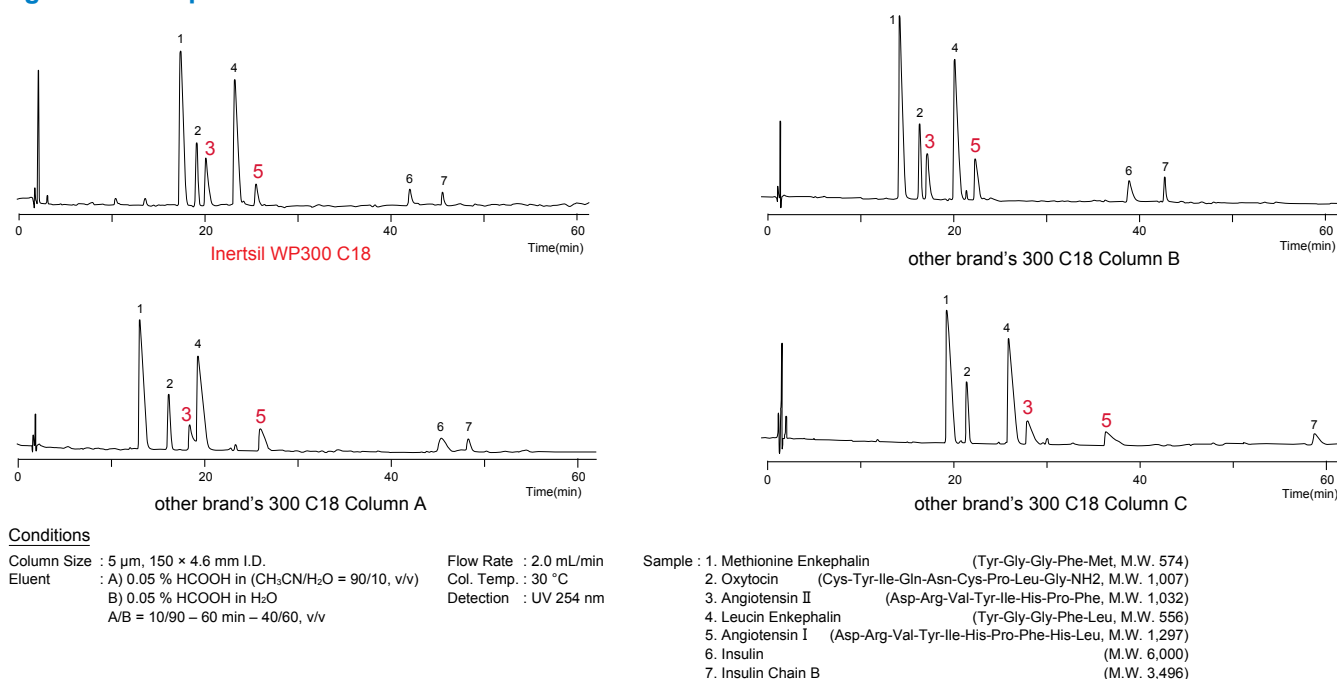
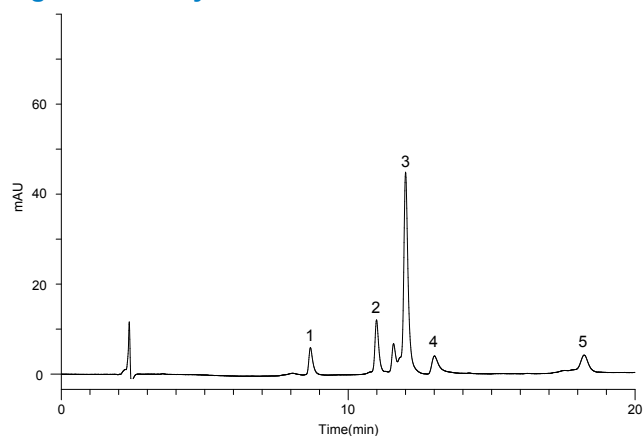


Figure 2 : Analysis of Proteins



Conditions

- Column : Inertsil WP300 C18 (5 µm, 150 × 3.0 mm I.D.)
 Eluent : A) 0.1 % TFA in CH₃CN
 B) 0.1 % TFA in H₂O
 A/B = 20/80 – 20 min – 70/30, v/v
- Flow Rate : 0.4 mL/min
 Col. Temp. : 40 °C
 Detection : UV 280 nm
 Injection Vol. : 10 µL
- Sample :**
- | |
|-------------------|
| 1. Ribonuclease B |
| 2. Cytochrome C |
| 3. Lysozyme |
| 4. BSA |
| 5. Ovalbumin |

Analytical Columns

Particle Size: 3 µm	Length \ I.D. (mm)	2.1	3.0	4.6
	50	5020-41100	5020-	5020-41103
	150	5020-41101	5020-41102	5020-41104
	250	5020-	5020-	5020-41105
Particle Size: 5 µm	Length \ I.D. (mm)	1.0	1.5	
	33	5020-85811	5020-85821	
	50	5020-85812	5020-85822	
	75	5020-85813	5020-85823	
	100	5020-85814	5020-85824	
	150	5020-85815	5020-85825	
	250	5020-85816	5020-85826	
	Length \ I.D. (mm)	2.1	3.0	4.0
	33	5020-05811	5020-05821	5020-05831
	50	5020-05812	5020-05822	5020-05832
	75	5020-05813	5020-05823	5020-05833
	100	5020-05814	5020-05824	5020-05834
	150	5020-05815	5020-05825	5020-05835
	250	5020-05816	5020-05826	5020-05836
				4.6
				5020-05841
				5020-05842
				5020-05843
				5020-05844
				5020-05845
				5020-05846

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Cartridge Guard Column E

I.D. of the Analytical Column Applicable (mm)	Length (mm)	I.D. (mm)	Replacement Cartridge E Guard Column (2 EA.)	Cartridge E Holder / Cartridge Set (2 Cartridge E Guard Columns & 1 Holder)
			Particle Size	Particle Size
			5 µm	5 µm
1.0	10	1.0	5020-19228	5020-19278
1.5, 2.1		1.5	5020-19328	5020-19378
2.1, 3.0		3.0	5020-19128	5020-19178
4.0, 4.6		4.0	5020-19028	5020-19078
2.1, 3.0	20	3.0	5020-19528	5020-19578
4.0, 4.6		4.0	5020-19428	5020-19478
Holder for Cartridge Guard Column E		For 10 mm Length		5020-08500
		For 20 mm Length		5020-08550

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Reversed Phase Columns

HILIC Columns

Normal Phase Columns

SEC Columns

Ion Exchange Columns

Application Specific Columns

Guard Columns

Preparative Columns

Capillary Columns

Applications

Cat. No. Index

Inertsil® WP300 C8

Physical Properties

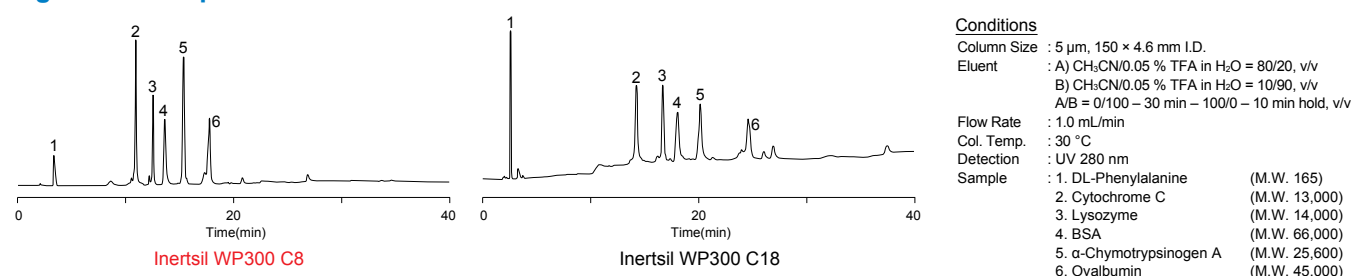
- Silica : WP300 Series High Purity Silica Gel
- Particle Size : 5 µm
- Surface Area : 150 m²/g
- Pore Size : 300 Å (30 nm)
- Pore Volume : 1.05 mL/g
- Bonded Phase : Octyl Groups
- End-capping : Yes
- Carbon Loading : 4 %
- USP Code : L7
- pH Range : 2 ~ 7.5



Inertsil WP300 C8 (wide pore size of 300 Å) columns bring the same legendary performance of Inertsil's narrow-pore HPLC products to columns designed specifically for the reproducible rapid separations of proteins and peptides.

As shown in figure 1, Inertsil WP300 C8 delivers rapid analysis with sharper peaks compared to Inertsil WP300 C18.

Figure 1 : Comparison with Inertsil® WP300 C18



Analytical Columns

Particle Size: 5 µm	Length \ I.D. (mm)	1.0	1.5		
	33	5020-85711	5020-85721		
	50	5020-85712	5020-85722		
	75	5020-85713	5020-85723		
	100	5020-85714	5020-85724		
	150	5020-85715	5020-85725		
	250	5020-85716	5020-85726		
	Length \ I.D. (mm)	2.1	3.0	4.0	4.6
	33	5020-05711	5020-05721	5020-05731	5020-05741
	50	5020-05712	5020-05722	5020-05732	5020-05742
	75	5020-05713	5020-05723	5020-05733	5020-05743
	100	5020-05714	5020-05724	5020-05734	5020-05744
	150	5020-05715	5020-05725	5020-05735	5020-05745
	250	5020-05716	5020-05726	5020-05736	5020-05746

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Cartridge Guard Column E

I.D. of the Analytical Column Applicable (mm)	Length (mm)	I.D. (mm)	Replacement Cartridge E Guard Column (2 EA.)	Cartridge E Holder / Cartridge Set (2 Cartridge E Guard Columns & 1 Holder)
			Particle Size	Particle Size
			5 µm	5 µm
1.0	10	1.0	5020-19229	5020-19279
1.5, 2.1		1.5	5020-19329	5020-19379
2.1, 3.0		3.0	5020-19129	5020-19179
4.0, 4.6		4.0	5020-19029	5020-19079
2.1, 3.0	20	3.0	5020-19529	5020-19579
4.0, 4.6		4.0	5020-19429	5020-19479
Holder for Cartridge Guard Column E			For 10 mm Length	5020-08500
			For 20 mm Length	5020-08550

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Inertsil® WP300 C4

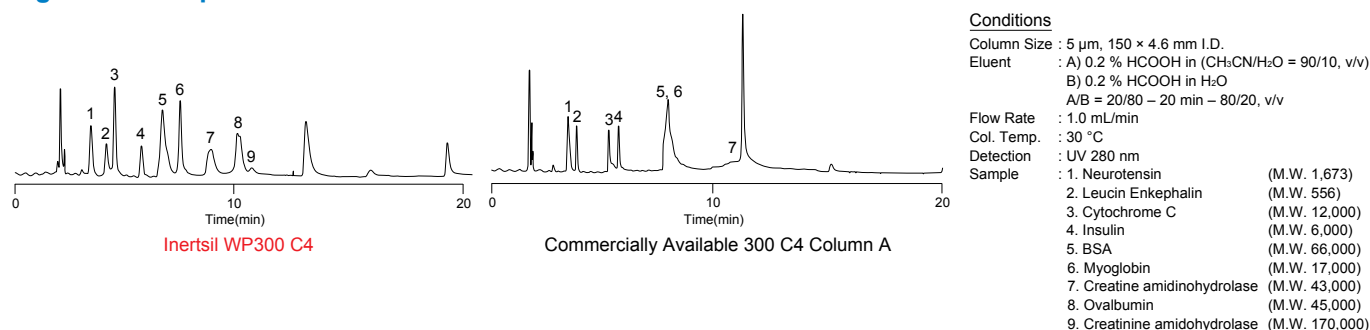
Physical Properties

- Silica : WP300 Series High Purity Silica Gel
- Particle Size : 5 µm
- Surface Area : 150 m²/g
- Pore Size : 300 Å (30 nm)
- Pore Volume : 1.05 mL/g
- Bonded Phase : Butyl Groups
- End-capping : None
- Carbon Loading : 3 %
- USP Code : L26
- pH Range : 2 ~ 7.5



Inertsil WP300 C4 is a butyl group bonded phase utilizing silica gel with wide pores (300 Å). Also, an optimal polar group is embedded between silica surface and butyl group, which reduces adsorption of basic compounds and fat-soluble proteins. Inertsil WP300 C4 is recommended for the analysis of large, highly fat-soluble proteins and peptides as illustrated in figure 1.

Figure 1 : Comparison of Performance between other brand's 300 C4 column



Analytical Columns

Particle Size: 5 µm	Length \ I.D. (mm)	1.0		1.5	
	33	5020-86111		5020-86121	
	50	5020-86112		5020-86122	
	75	5020-86113		5020-86123	
	100	5020-86114		5020-86124	
	150	5020-86115		5020-86125	
	250	5020-86116		5020-86126	
	Length \ I.D. (mm)	2.1		3.0	
	33	5020-05861		5020-05871	
	50	5020-05862		5020-05872	
			4.0		4.6
	33		5020-05881		5020-05891
	50		5020-05882		5020-05892
	75		5020-05883		5020-05893
	100		5020-05884		5020-05894
	150		5020-05885		5020-05895
	250		5020-05886		5020-05896

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Cartridge Guard Column E

I.D. of the Analytical Column Applicable (mm)	Length (mm)	I.D. (mm)	Replacement Cartridge E Guard Column (2 EA.)	Cartridge E Holder / Cartridge Set (2 Cartridge E Guard Columns & 1 Holder)
			Particle Size	Particle Size
			5 µm	5 µm
1.0	10	1.0	5020-19230	5020-19280
1.5, 2.1		1.5	5020-19330	5020-19380
2.1, 3.0		3.0	5020-19130	5020-19180
4.0, 4.6		4.0	5020-19030	5020-19080
2.1, 3.0	20	3.0	5020-19530	5020-19580
4.0, 4.6		4.0	5020-19430	5020-19480
Holder for Cartridge Guard Column E			For 10 mm Length	5020-08500
			For 20 mm Length	5020-08550

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.