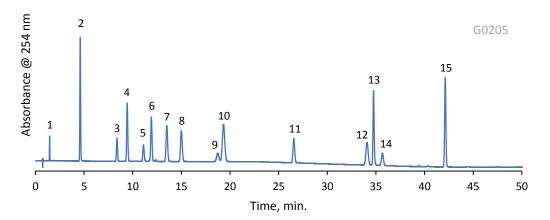
HALO: | Fused-Core® Particle Technology

Application Note: 211-EP

Paracetamol Impurities: European Pharmacopoeia 9.4 Method



TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 μm, 2.1 x 100mm

Part Number: 92812-602

Guard Column: HALO 90 Å C18, 2.7 μm, 2.1 x 5mm

Part Number: 92812-102

Guard Column Holder: Part Number: 94900-001

Mobile Phase A: Phosphate Buffer (1.7g. potassium dihydrogen

phosphate and 1.8g. dipotassium hydrogen in 1000mL)

Mobile Phase B: Methanol

Flow Rate: 0.3 mL/min Initial Pressure: 246 bar Temperature: 30°C Detection: 254 nm, PDA Injection Volume: 1 μL

Sample Solvent: 85/15 Water/ MeOH

Data Rate: 40 Hz

Response Time: 0.025 sec.

Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

PEAK IDENTITIES:

- 1. Impurity K
- 2. Paracetamol
- 3. Impurity A
- 4. Impurity B
- 5. Impurity F
- 6. Impurity C
- 7. Impurity D
- 8. Impurity E
- 9. Impurity M
- 10. Impurity G
- 11. Impurity H
- 12. Impurity I
- 13. Impurity L
- 14. Impurity J
- 15. Impurity N

Paracetamol (acetaminophen) is a common pain relief and fever medication taken individually, or in combination with other medications. An analysis of paracetamol and 14 of its impurities are separated on a HALO 90Å C18 column following the official European Pharmacopoeia 9.4 method. Baseline resolution is obtained for all compounds including critical pairs of impurity M/G and impurities I/L/J. A HALO 90Å C18 guard column is also used in order to provide optimum protection for your HALO® HPLC column without sacrificing the column's efficiency.

-For more information visit the *Under the HALO*



FOR MORE INFORMATION OR TO PLACE AN ORDER, CONTACT: