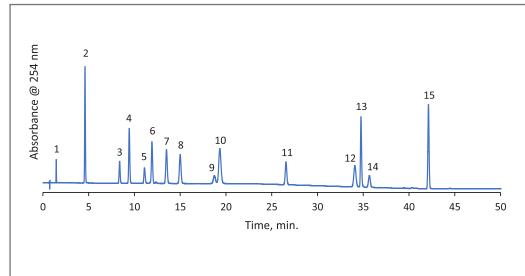
PHARMACEUTICALS

HALO



Paracetamol Impurities: European Pharmacopoeia 9.4 Method

Application Note 211-EP



PEAK IDENTITIES:

- Impurity K
 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

TEST CONDITIONS:

HALO 90 Å C18, 2.7 μm, 2.1 x 100 mm Column: **Part Number**: 92812-602 Guard Column: HALO 90 Å C18, 2.7 µm, 2.1 x 5 mm **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 Gradient: Time % B 5 0.0 5 1.0 10.0 10 20.0 10 40.0 34 50.0 34 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

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 90 Å 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 90 Å C18 guard column is also used in order to provide optimum protection for your HALO[®] HPLC column without sacrificing the column's efficiency.

