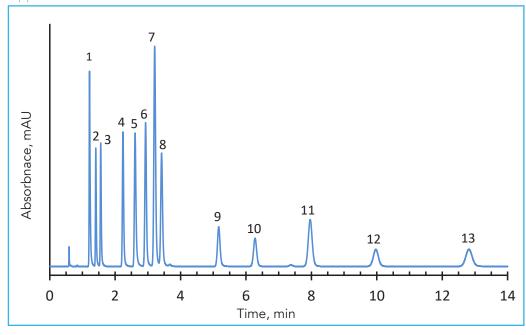


BIOPHARMACEUTICALS



Separation of Nucleosides and Nucleobases on 2.7 µm HALO® Penta-HILIC

Application Note 76-NU



PEAK IDENTITIES:

- 1. Thymine
- 2. Uracil
- 3. Thymidine
- 4. 2-Deoxyadenosine
- 5. Adenine
- 6. Uridine
- 7. Adenosine
- 8. Hypoxanthine
- 9. Cytosine
- 10. 2-Deoxycytidine
- 11. 2-Deoxyguanosine
- 12. Cytidine
- 13. Guanosine

The new HALO® Penta-HILIC stationary phase is an HPLC phase having a hydroxylrich surface for performing separations in the hydrophilic interaction chromatography mode. Here, a mixture of 13 nucleosides and nucleobases are separated isocratically in a short time with excellent resolution. These bonded superficially porous 2.7 µm HALO® particles allow high resolution with modest back pressure.

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 μm,

4.6 x 100 mm Part Number: 92814-605 Mobile Phase: 8/92 - A/B

A: Water

B: Acetonitrile with 0.01 M ammonium

formate, pH 6.0 (adj.)

Flow Rate: 1.5 mL/min Pressure: 99 bar Temperature: 35 °C

Detection: UV 260 nm, DAD Injection Volume: 2.0 μL Sample Solvent: Mobile phase Response Time: 0.02 sec Flow Cell: 2.5 μL semi-micro

LC System: Shimadzu Nexera

STRUCTURES:

