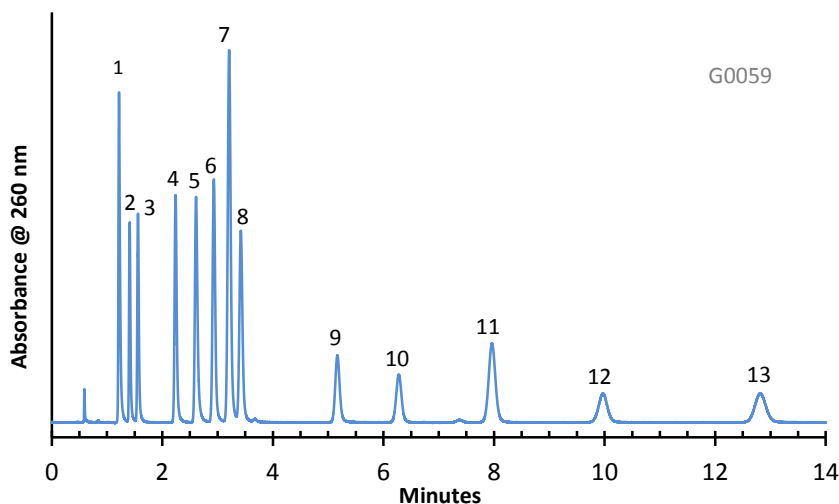


Separation of Nucleosides and Nucleobases on 2.7µm HALO Penta-HILIC



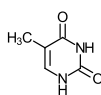
PEAK IDENTITIES:

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

TEST CONDITIONS:

Column: 4.6 x 100 mm, 2.7µm HALO Penta-HILIC
 Part Number: 92814-605
 Mobile Phase: 8/92: Water/acetonitrile with 0.01 M Ammonium formate, pH=6 (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

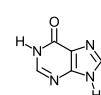
STRUCTURES:



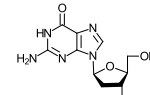
Thymine



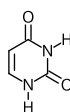
Adenine



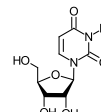
Hypoxanthine



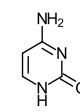
2'-Deoxyguanosine



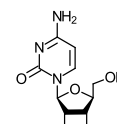
Uracil



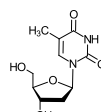
Uridine



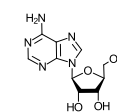
Cytosine



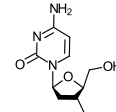
Cytidine



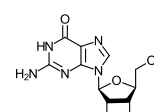
Thymidine



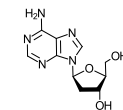
Adenosine



2'-Deoxycytidine



Guanosine



2'-Deoxyadenosine

The new HALO Penta-HILIC stationary phase is an HPLC phase having a hydroxyl-rich 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 2.7µm HALO particles allow high resolution with modest back pressure.