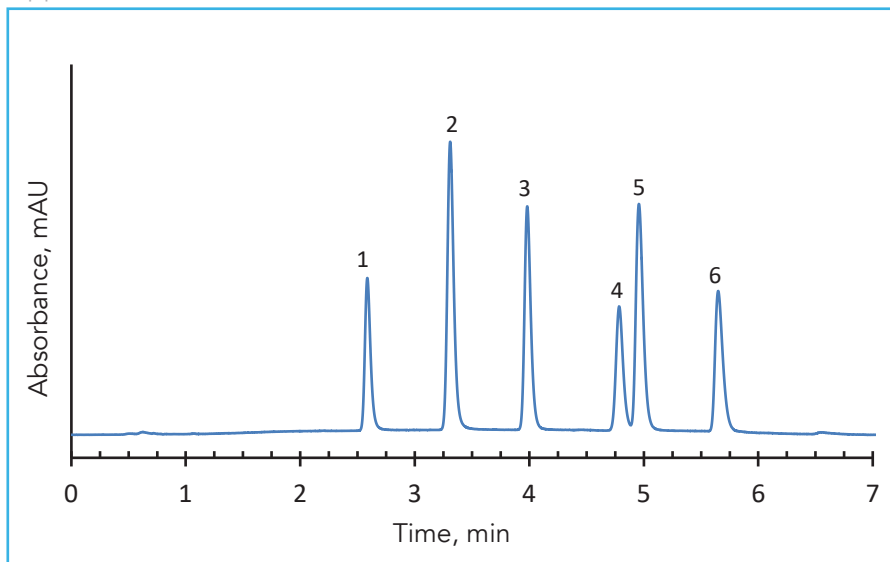




Separation of Nucleotides on HALO® Penta-HILIC, 2.7 µm

Application Note 101-B



PEAK IDENTITIES:

1. Adenosine monophosphate (AMP)
2. Guanosine monophosphate (GMP)
3. Adenosine diphosphate (ADP)
4. Guanosine diphosphate (GDP)
5. Adenosine triphosphate (ATP)
6. Guanosine triphosphate (GTP)

This separation demonstrates the utility of the HALO® Penta-HILIC phase for analysis of nucleotides. Fused-Core® technology gives high resolution separations at moderate pressures without the difficulties of using sub two-micron-particle columns.

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 µm,
2.1 x 100 mm

Part Number: 92812-605

Mobile Phase:

A: 50/50 acetonitrile/0.025 M ammonium phosphate, pH 6.0

B: 75/25 acetonitrile/0.025 M ammonium phosphate, pH 6.0

Gradient:	Time (min)	% B
	0.0	90
	8.0	40

Flow Rate: 0.3 mL/min

Pressure: 76 bar

Temperature: 50 °C

Detection: UV 260 nm, DAD

Injection Volume: 1.0 µL

Sample Solvent: Mobile phase B

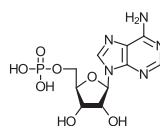
Response Time: 0.02 sec

Data Rate: 40 Hz

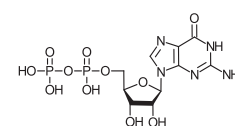
Flow Cell: 1.0 µL micro cell

LC System: Shimadzu Nexera

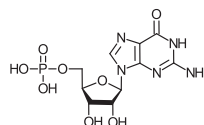
STRUCTURES:



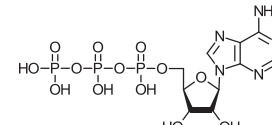
Adenosine Monophosphate



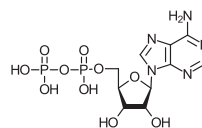
Guanosine Diphosphate



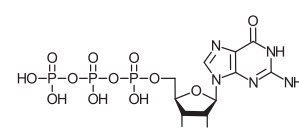
Guanosine Monophosphate



Adenosine Triphosphate



Adenosine Diphosphate



Guanosine Triphosphate

