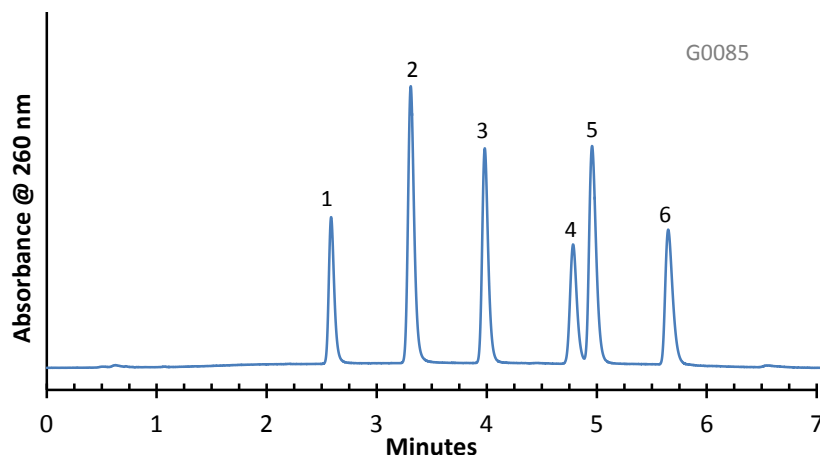


Separation of Nucleotides on HALO Penta-HILIC, 2.7 µm



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)

TEST CONDITIONS:

Column: 2.1 x 100 mm, HALO Penta-HILIC

Part Number: 92812-605

Mobile Phase:

A= 50/50: Acetonitrile/0.025 M ammonium phosphate, pH=6

B= 75/25: Acetonitrile/0.025 M ammonium phosphate, pH=6

Gradient:

Time(min)	%B
0.0	90
8.0	40

Flow Rate: 0.3 mL/min.

Initial pressure: 76 Bar

Temperature: 50°C

Detection: UV 260 nm, DAD

Injection Volume: 1.0 µL

Sample Solvent: mobile phase B

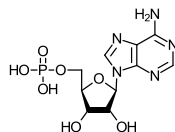
Response Time: 0.02 sec.

Flow Cell: 1.0 µL micro

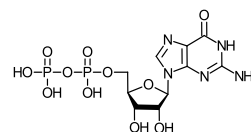
LC System: Shimadzu Nexera

Data rate: 40 Hz

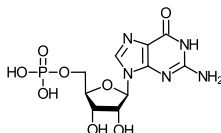
STRUCTURES:



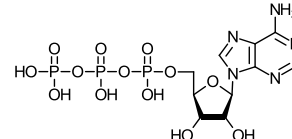
Adenosine Monophosphate



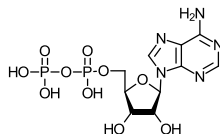
Guanosine Diphosphate



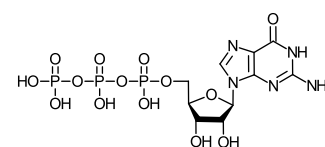
Guanosine Monophosphate



Adenosine Triphosphate



Adenosine Diphosphate



Guanosine Triphosphate

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.