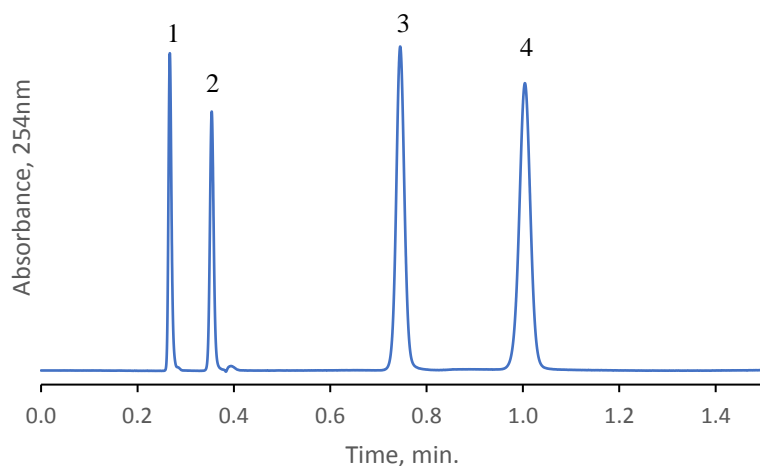


HALO® | Fused-Core® Particle Technology

Application Note: 158-NU

HALO AQ-C18 Separation of a Nucleoside Analog and Nucleobases

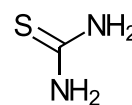
G0148



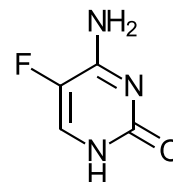
PEAK IDENTITIES:

1. Thiourea
2. 5-Fluorocytosine
3. Adenine
4. Thymine

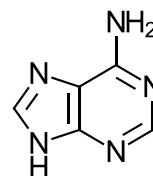
STRUCTURES:



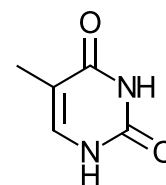
Thiourea



5-Fluorocytosine



Adenine



Thymine

TEST CONDITIONS:

Column: HALO 90Å, AQ-C18, 2.7 µm, 4.6 x 50mm

Isocratic: Water, 0.1% TFA

Flow Rate: 2.0 mL/min

Pressure: 290 bar

Temperature: 30°C

Detection: UV 254 nm, PDA

Injection Volume: 0.5 µL

Sample Solvent: Water, 0.1% TFA

Acquisition Rate: 100 Hz

Response Time: 0.05 sec

Flow Cell: 1 µL

This separation of a nucleoside analog and nucleobases on a HALO AQ-C18 column shows excellent peak shape and efficiency using 100% aqueous mobile phase conditions.