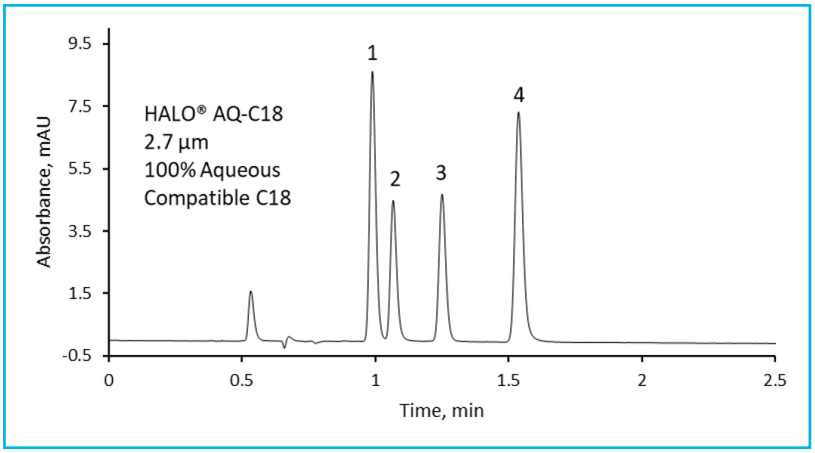
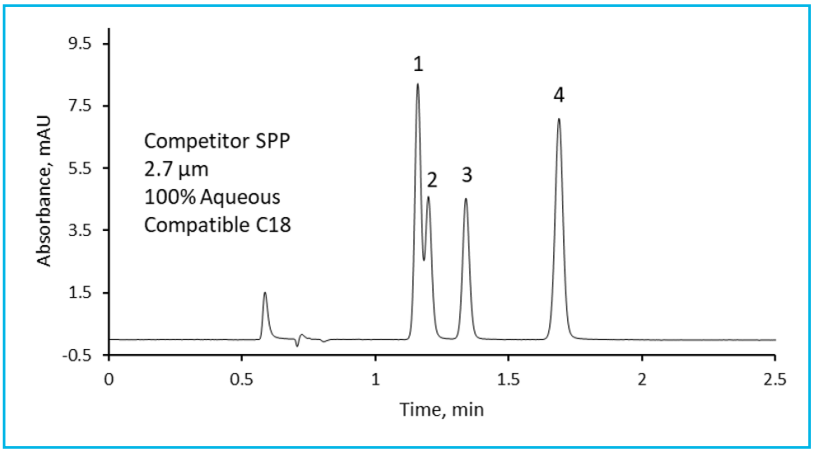
Purines on HALO® AQ-C18 compared to a Competitor 100% Aqueous Compatible Column

428



PEAK IDENTITIES

1. Guanine
2. Hypoxanthine
3. Uracil
4. Xanthine



TEST CONDITIONS:

Column: HALO 90 Å AQ-C18, 2.7 µm, 2.1 x 100 mm
Part Number: 92812-622
Column: SPP 2.7 µm, 130 Å 100% aqueous compatible C18
Mobile Phase A: water/0.1% DFA
Isocratic: 100% A
Flow Rate: 0.35 mL/min.
Temperature: 35 °C
Injection Volume: 1 µL @ 10 mM each in 0.1% DFA

Sample Solvent: water/0.1% DFA
Wavelength: PDA, 265 nm
Flow Cell: 1 µL
Data Rate: 40 Hz
Response Time: 0.050 sec.
LC System: Shimadzu Nexera X2

This application note highlights the comparison between HALO® AQ-C18 and a competitor SPP column that is 100% aqueous compatible using a mixture of 4 different purines. These compounds are very polar so they require a 100% aqueous mobile phase in order to be sufficiently retained. The HALO® AQ-C18 column shows excellent peak shape and retention, while the competitor column shows a coelution between peaks 1 and 2.