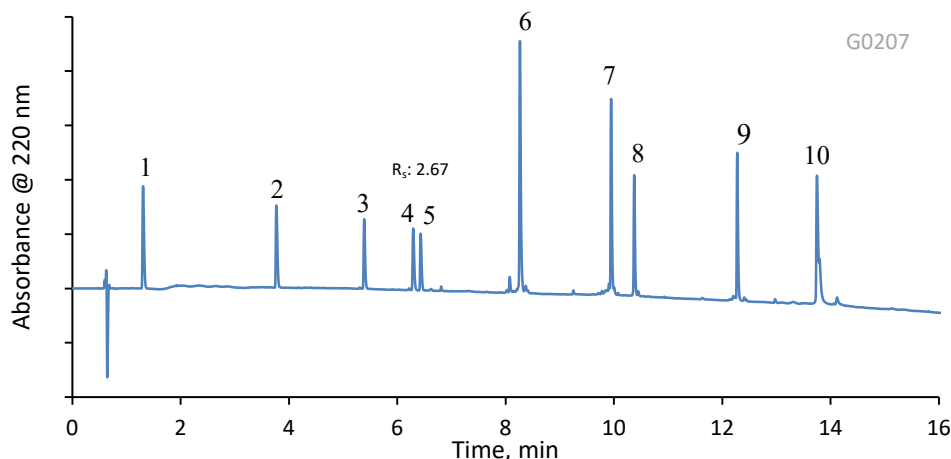


HALO | Fused-Core® Particle Technology

Application Note: 213-PR

Peptide and Protein Mix on HALO 400 Å ES-C18, 3.4 µm



PEAK IDENTITIES:

1. Gly-Tyr
2. Val-Tyr-Val
3. Methionine Enkephalin
4. Angiotensin II
5. Leucine Enkephalin
6. RNase A
7. Cytochrome C
8. Insulin
9. Alpha-lactalbumin
10. Enolase

TEST CONDITIONS:

Column: HALO 400 Å ES-C18, 3.4 µm, 2.1 x 150 mm

Part Number: 93412-702

Mobile Phase A: Water + 0.1% DFA

Mobile Phase B: 80/20 Acetonitrile/Water + 0.1% DFA

Gradient:	<u>Time</u>	<u>%B</u>
	0.0	0
	15.0	60
	16.0	60
	16.1	0
	20.0	0

Flow Rate: 0.5 mL/min

Initial Pressure: 165 bar

Temperature: 60 °C

Detection: UV 220 nm, PDA

Injection Volume: 1.5 µL

Sample Solvent: Water

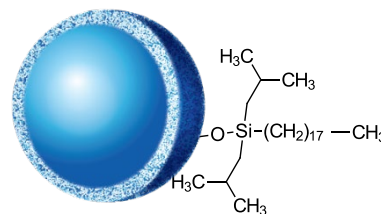
Data Rate: 40 Hz

Response Time: 0.025 sec

Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

STRUCTURE:



HALO 400 Å ES-C18, 3.4 µm

A mix of peptides and proteins was separated with excellent resolution and peak shape using the HALO 400 Å ES-C18. The steric protection of this phase makes it particularly ideal for the high temperature and low pH conditions often required for peptide and protein separations. Because of its smaller pore size compared to the 1000 Å ES-C18, the 400 Å ES-C18 easily separates mixtures of peptides and smaller proteins such as cytochrome C, alpha-lactalbumin, and enolase.