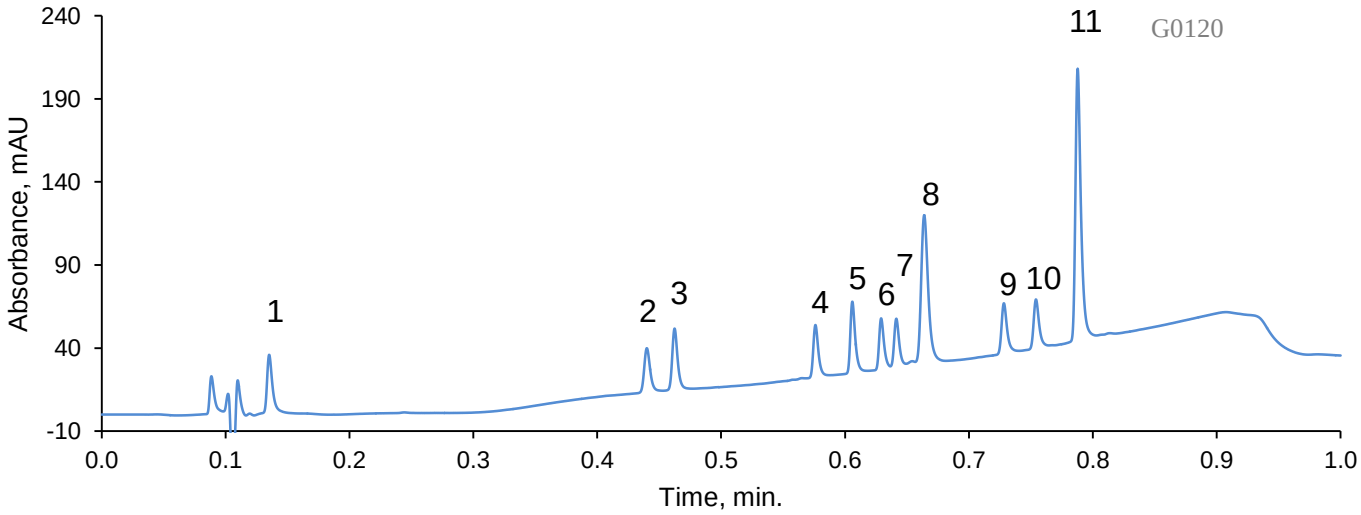
HALO® | Fused-Core® Particle Technology

Application Note: 135-PE

Fast Peptide Separation with HALO 2 Peptide ES-C18



TEST CONDITIONS:

Column:
3.0 x 50 mm, HALO 2 Peptide ES-C18, 2 µm
Part Number: 91123-402

Mobile Phase:
A = 0.1% Trifluoroacetic acid in water
B = 0.1% Trifluoroacetic acid in 80/20 acetonitrile/water
Flow Rate: 2.2 mL/min.
Gradient: Hold at 12.5% B for 0.1 min;
12.5% B to 63% B from 0.1 - 1.0 min.
Initial pressure: 556 bar
Temperature: 60 °C
Detection: UV 215 nm, PDA
Injection Volume: 0.5 µL
Sample Solvent: mobile phase A
Response Time: 0.025 sec.
Data Rate: 200 Hz
LC System: Shimadzu Nexera X2
Flow Cell: 1 µL

PEAK IDENTITIES:	MW (g/mol)
1. Gly-Tyr	238
2. Val-Tyr-Val	380
3. Angiotensin 1/2 (1-7) amide	898
4. Met-enkephalin	574
5. Angiotensin 1/2 (1-8) amide	1045
6. Angiotensin II	1046
7. Leu-enkephalin	556
8. Ribonuclease A	13,700
9. Angiotensin (1-12) (mouse)	1573
10. Bovine Insulin	5733
11. Angiotensin (1-12) (human)	1509

A one minute separation of a mixture of peptides and small proteins is demonstrated on a HALO 2 Peptide ES-C18 column. Separations can be run at high flow rate in order to maximize sample throughput.

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