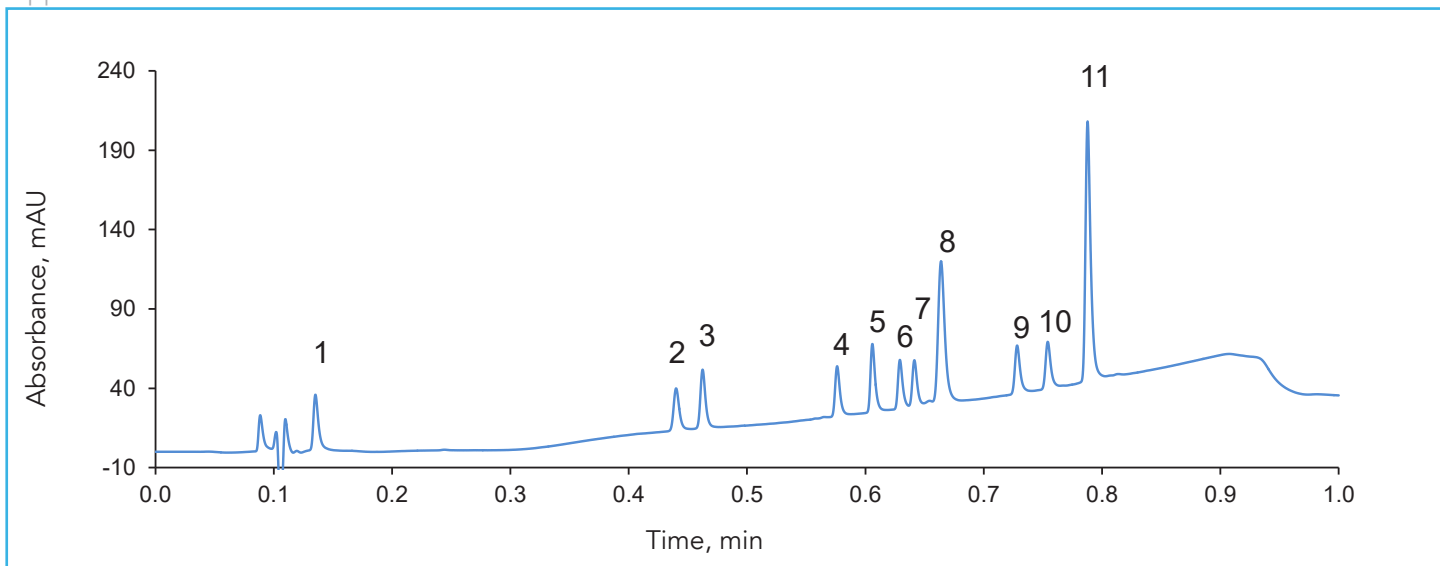




Fast Peptide Separation with HALO 160 Å ES-C18, 2.0 µm

Application Note 135-PE



A one-minute separation of a mixture of peptides and small proteins is demonstrated on a HALO 160 Å ES-C18, 2.0 µm column. Separations can be run at high flow rate in order to maximize sample throughput.

TEST CONDITIONS:

Column: HALO 160 Å ES-C18, 2.0 µm,
3.0 x 50 mm
Part Number: 91123-402
Mobile Phase:
A: 0.1% Trifluoroacetic acid in water
B: 0.1% Trifluoroacetic acid in 80/20
acetonitrile/water
Gradient: Hold at 12.5% B for 0.1 min;
12.5% B to 63% B from 0.1-1.0 min
Flow Rate: 2.2 mL/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
Flow Cell: 1.0 µL
LC System: Shimadzu Nexera X2

PEAK IDENTITIES:

Peak Number	Identity	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

