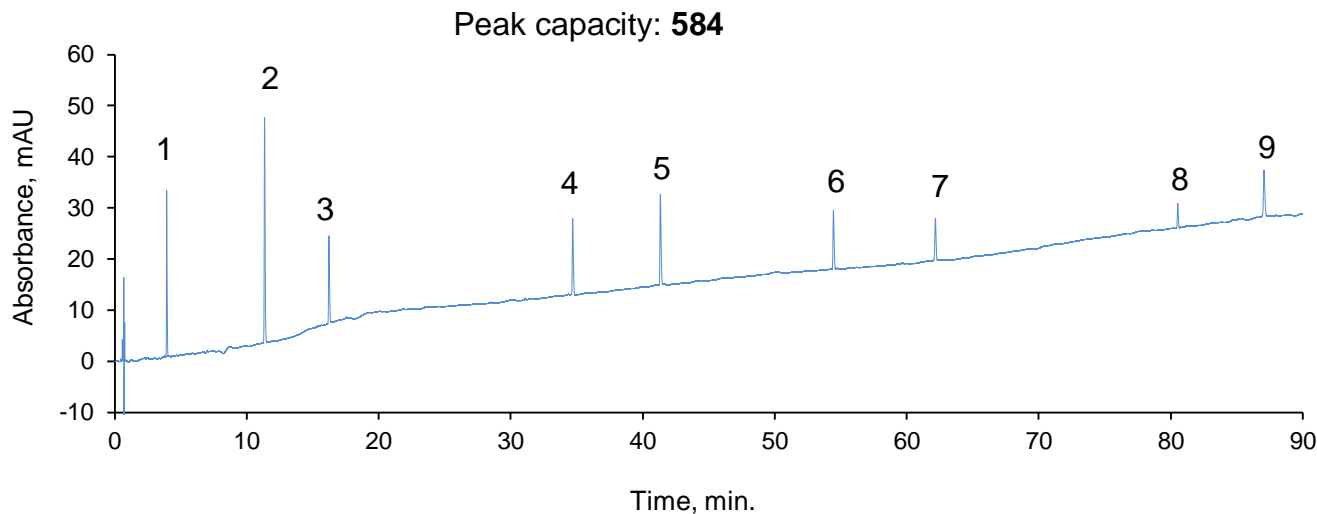


Very High Peak Capacity with HALO 2 Peptide ES-C18

G0121



TEST CONDITIONS:

Column:

2.1 x 150 mm, HALO 2 Peptide ES-C18, 2 µm
Part Number: 91122-702

Mobile Phase:

A= 0.1% Trifluoroacetic acid in water
B= 0.1% Trifluoroacetic acid in 80/20 acetonitrile/water
Flow Rate: 0.5 mL/min.
Gradient: 5% B to 50% B in 90 minutes
Maximum pressure: 577 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: 40 Hz
LC System: Shimadzu Nexera X2
Flow Cell: 1 µL

PEAK IDENTITIES

	MW (g/mol)
1. Asp-Phe	280
2. Tyr-Tyr-Tyr	508
3. Angiotensin (1-7) amide	898
4. Angiotensin II	1046
5. Angiotensin (1-12) human	1509
6. Neurotensin	1673
7. β-endorphin	3465
8. Sauvagine	4599
9. Mellitin	2847

With a HALO 2 Peptide ES-C18 column, very high peak capacity values can be obtained within 90 minutes. The sharp, narrow peaks facilitate separations of complex, challenging samples, such as tryptic digests.

$$\text{Peak capacity: } n_{pc} = \frac{(t_f - t_i)}{W_{4\sigma}}$$

where t_i is the time for initial measurable peak in the gradient, t_f is the time for final peak and $W_{4\sigma}$ is the average four-sigma width in time for the peaks in the chromatogram