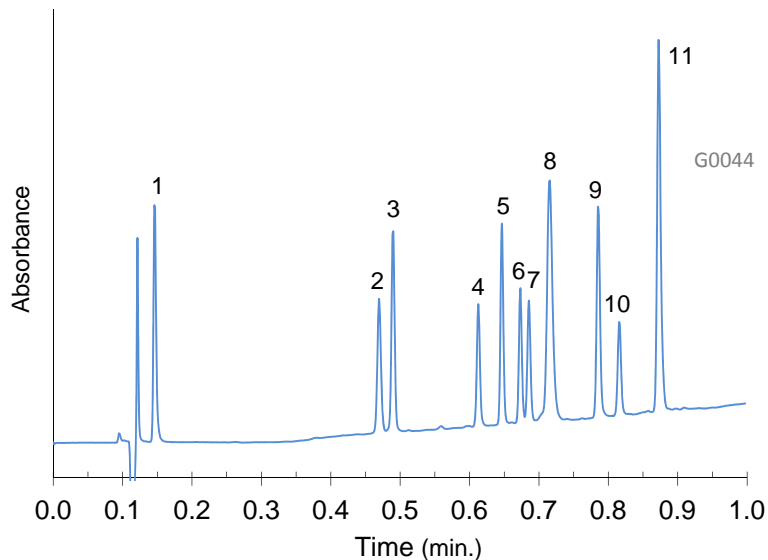


Separation of Peptides and Small Proteins on HALO Peptide ES-C18



PEAK IDENTITIES:

1. Gly-Tyr
2. Val-Tyr-Val
3. Angiotensin (1-7) amide
4. Met-Enk
5. Angiotensin (1-8) amide
6. Angiotensin II
7. Leu-Enk
8. Ribonuclease A
9. Angiotensin (1-12) (human)
10. Angiotensin (1-12) (mouse)
11. Porcine insulin

TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO Peptide ES-C18
Part Number: 92124-402

Mobile Phase:

A= 90%(0.1% TFA in water)/10% acetonitrile

B= 30% (0.1% TFA in water)/70% acetonitrile

Gradient: 0% B to 87% B in 1 minute

Flow Rate: 5.0 mL/min.

Pressure: 330 Bar

Temperature: 60°C

Detection: UV 220 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: Mobile Phase A

Response Time: < 0.12 sec.

Flow Cell: 5 µL semi-micro

LC System: Quaternary Agilent 1100

Gradient dwell volume is 0.88 mL

DISCUSSION:

This separation shows the utility of the HALO Fused-Core Peptide ES-C18 stationary phase for the separation of peptides by HPLC. An average pore size of about 160 Angstroms enhances the mass transfer of peptides and small proteins of up to a molecular weight of approximately 15 kD, depending on the molecular configuration. Also, the stationary phase is a sterically protected C18 bonded silane to increase resistance to low pH mobile phases and elevated temperatures (up to 100 °C.) that are commonly used in the separation of many biological materials.