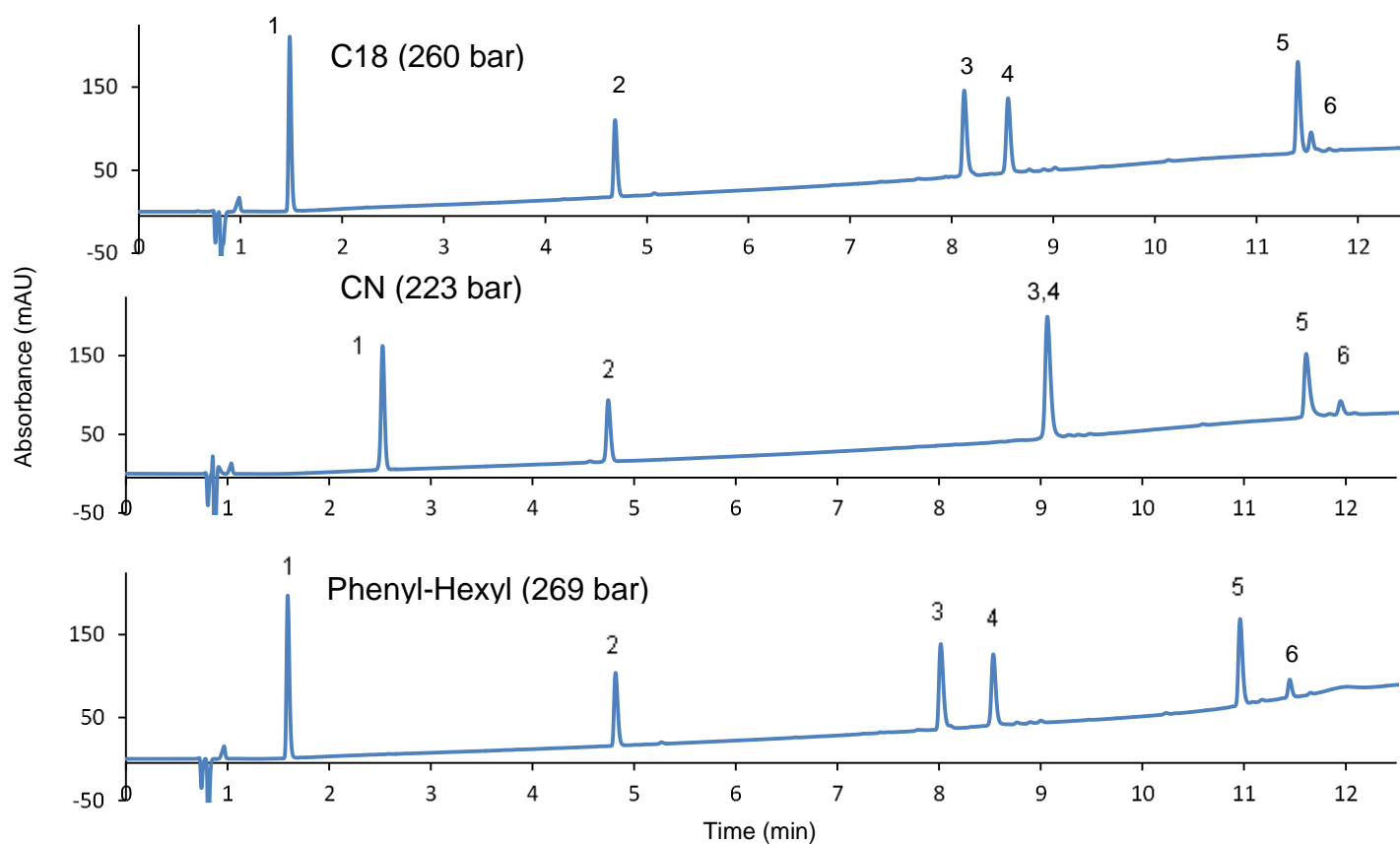




UHPLC Analysis of Peptides on BIOshell™ A160 Peptide C18, CN, and Phenyl-Hexyl, 2.7 µm



| Peak Number | Compound |
|-------------|------------------|
| 1 | Tyr-Tyr-Tyr |
| 2 | Angiotensin II |
| 3 | Angiotensin 1-12 |
| 4 | Melittin |
| 5 | Sauvagine |
| 6 | β-Endorphin |

Conditions:

column: BIOshell™ A160 Peptide CN, 15 cm x 2.1 mm I.D., 2.7 µm;
BIOshell™ A160 Peptide C18, 15 cm x 2.1 mm I.D., 2.7 µm;
BIOshell™ A160 Peptide Phenyl-Hexyl, 15 cm x 2.1 mm I.D., 2.7 µm

mobile phase: [A] Water (0.1% v/v formic acid, 10 mM ammonium formate)
[B] 50:50 Water (0.1% v/v formic acid, 10 mM ammonium formate, pH 3.45): n-Propanol

gradient: 10% B to 60% B in 15 min.

flow rate: 0.4 mL/min

column temp.: 60 °C

detector: UV, 220 nm

injection: 2 µL

sample: Peptides, varied concentration, water (0.1% v/v trifluoroacetic acid)



Description:

Three BIOshell™ A160 Peptide columns are compared in this application, the Peptide C18, CN, and Phenyl-Hexyl. It is often helpful to experiment with different bonded phases to optimize results, as shown here. For this particular peptide mix, the Phenyl-Hexyl provides the best resolution, avoiding the coelution seen on the CN and the decreased resolution between peaks 5 and 6 on the Peptide C18.

Materials:

| Product Part Number | Description |
|---------------------|--|
| 66969-U | BIOshell™ A160 Peptide CN, 15 cm x 2.1 mm I.D., 2.7 µm |
| 66905-U | BIOshell™ A160 Peptide C18, 15 cm x 2.1 mm I.D., 2.7 µm |
| 577528-U | BIOshell™ A160 Peptide Phenyl-Hexyl, 15 cm x 2.1 mm I.D., 2.7 µm |
| T2007 | Tyr-Tyr-Tyr |
| A9525 | Angiotensin II (human) |
| M2272 | Melittin from honey bee venom |
| S3884 | Sauvagine |
| E6261 | β-Endorphin (human) |
| 270733 | Water |
| 5.33002 | Formic Acid |
| 70221 | Ammonium Formate |
| 34871 | N-propanol |
| 302031 | Trifluoroacetic acid |