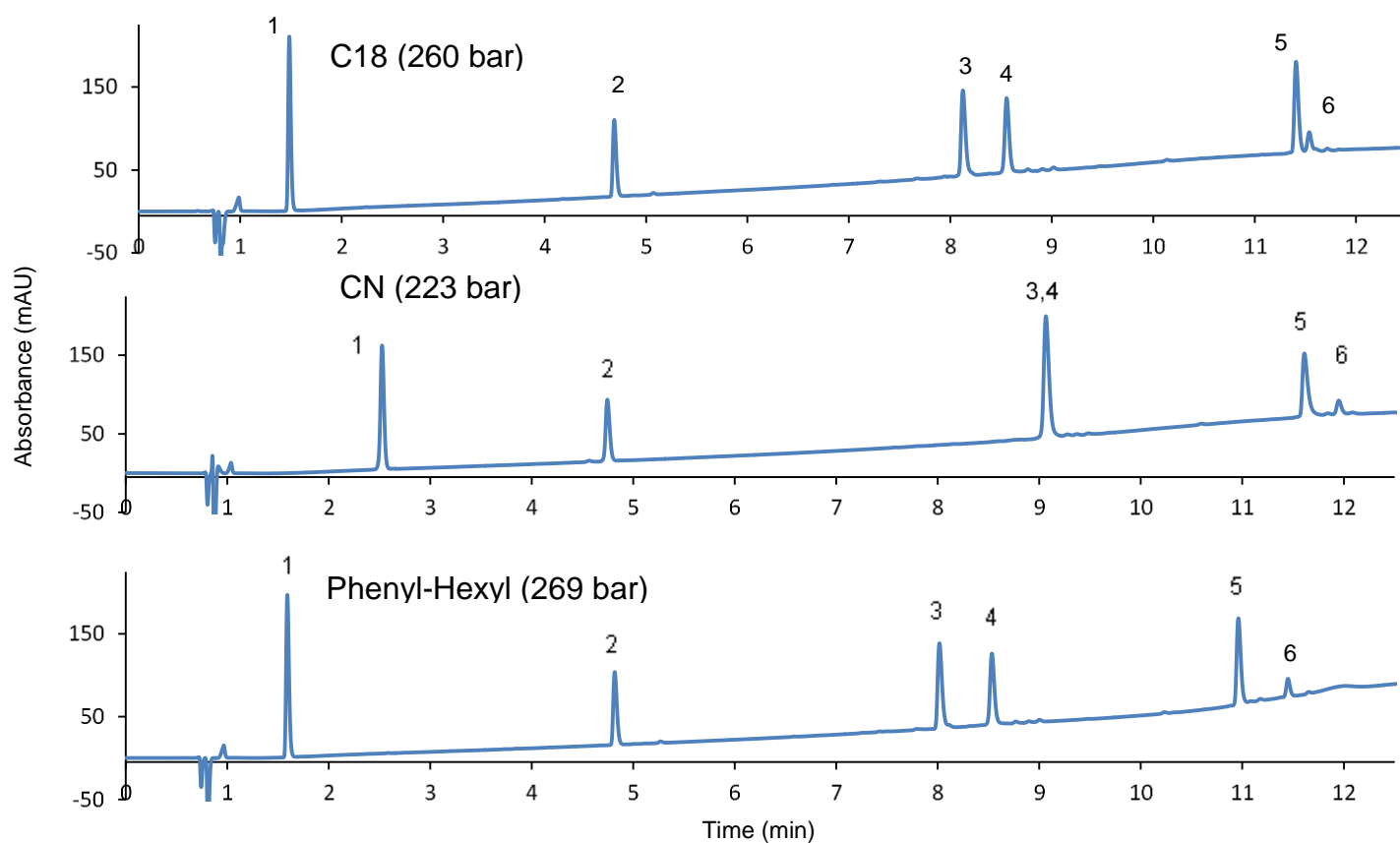




UHPLC Analysis of Peptides on BIOshell™ A160 Peptide C18, CN, and Phenyl-Hexyl, 2.7 µm



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