Peptides, amidated and deamidated

Application Note

BioPharma

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Introduction
HPLC using an Agilent Pursuit C18 column separates amidated and deamidated peptides in under six minutes.
**Conditions**

Column: Agilent Pursuit C18, 4.6 x 150 mm, 5 μm  
Part No.: A3000150X046

Mobile Phase:  
A: H₂O + 0.1% TFA, pH 2.0  
B: CH₃CN + 0.1% TFA

Gradient: 15% - 25% B in 10 min

Flow Rate: 1.0 mL/min

Temperature: Ambient

Detection: 215 nm

**Peak identification**

1. Amidated peptide - RQRMS  
H-Arg-Glu-Arg-Met-Ser-OH  
Theoretical Mass (M+H⁺): 677.8

2. Deamidated peptide - RERMS  
B-Amyloid/A4 Protein Precursor (APP)  
H-Arg-Glu-Arg-Met-Ser-OH  
Theoretical Mass (M+H⁺): 678.8