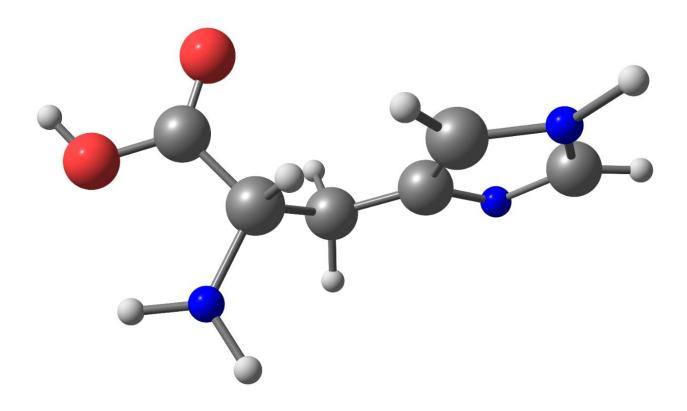
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Gradient Separation of Histidine Dipeptides on ACQUITY UPLC BEH HILIC

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates the gradient separation of histidine dipeptides on ACQUITY UPLC BEH

HILIC Columns.

Introduction

The compounds used in this study are:

- 1. Creatinine
- 2. Creatine
- 3. Anserine
- 4. Carnosine

Experimental

Test Conditions

Column: ACQUITY UPLC BEH HILIC, 2.1 x 50 mm, 1.7 μ m Part Number: 186003460 Mobile Phase A: 50/50 ACN/10 mM ammonium formate, w/ 0.125% HCOOH, pH 3.0 Mobile Phase B: 95/5 ACN/10 mM ammonium formate, w/ 0.125% HCOOH, pH 3.0 Flow Rate: 0.5 mL/min Injection Volume: 5.0 µL Sample Diluent: 75:25 ACN:MeOH Sample Concentration: Creatinine 1µg/mL; Carnosine 5 µg/mL; Anserine 5 g/mL; Creatine 5 μ g/mL Column Temperature: 30 °C Weak Needle Wash: ACN/H₂O 95/5 Instrument: Waters ACQUITY UPLC with ACQUITY SQD Gradient Profile Time (min) %A 0.00 0.1

99.9

5.00

 Time (min)
 Profile

 5.01
 0.1

 6.00
 0.1

MS Conditions

Ionization Mode: ES+

Capillary: 2.5 kV

Cone: 20 V (Carnosine; Creatinine, Anserine);

25 V (Creatine)

Source Temperature: 120 °C

Desolvation Temperature: 400 °C

Desolvation Gas Flow: 800 L/Hr

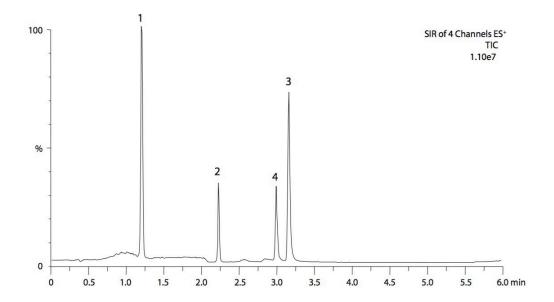
Cone gas Flow: 5 L/Hr

SIR *m/z*: 227.1 *m/z* (Carnosine); 132.1 *m/z* (Creatine); 114.05

m/z (Creatinine); 241.1 m/z (Anserine)

Dwell Time: 0.1 s

Results and Discussion



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- ACQUITY UPLC System https://www.waters.com/514207

WA60139, August 2009



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