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ACQUITY UPLC Analysis of Histidine Dipeptides

Waters Corporation

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

Abstract

This application highlights the analysis of Histidine Dipeptides on ACQUITY UPLC BEH Amide Columns.

Introduction

The compounds used in this study are:

- 1. Creatinine (1 μg/mL)
- 2. Creatine (5 μg/mL)
- 3. Anserine (5 μg/mL)
- 4. Canosine (5 μg/mL)

Carnosine

Creatine

Experimental

Chromatographic Conditions

Column: ACQUITY UPLC BEH HILIC, 2.1 x 50 mm,

 $1.7~\mu m$

Part Number: 186004800

Mobile Phase A: 50/50 MeCN/H₂O with 10 mM CH₃COONH

4 and 0.04 % NH₄OH, pH 9.0

Mobile Phase B: 95/5 MeCN/H₂O with 10 mM CH₃COONH₄

and 0.04 % NH₄OH, pH 9.0

Flow Rate: 0.5 mL/min

Injection Volume: 5 μL

Sample Diluent: 75/25 MeCN/MeOH

Column Temperature: 30 °C

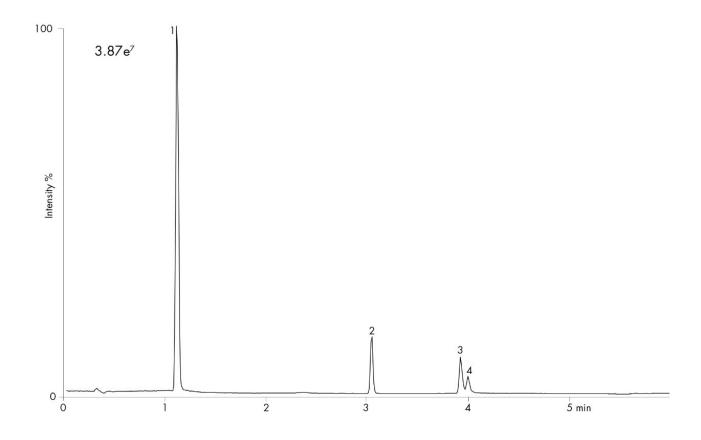
Weak Needle Wash: 95/5 MeCN/H₂O

Instrument: Waters ACQUITY UPLC with ACQUITY SQD

Gradient

| Time (min) | Profile | | |
|---------------|---------|------|--|
| | %A | %B | |
| Initial | 0.1 | 99.9 | |
| 5.00 | 65.0 | 35.0 | |
| 5.01 | 0.1 | 99.9 | |
| 6.00 | 0.1 | 99.9 | |

Results and Discussion



Featured Products

SQ Detector 2 https://www.waters.com/134631584

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