Waters™

應用手冊

ACQUITY UPLC Analysis of Histidine Dipeptides

Waters Corporation

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

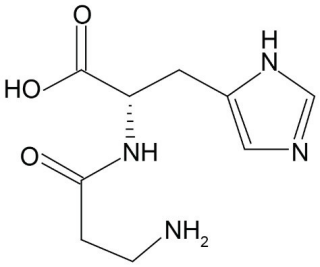
Abstract

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

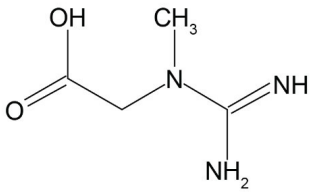
Introduction

The compounds used in this study are:

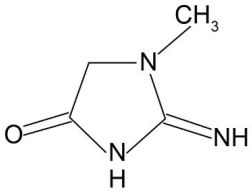
1. Creatinine (1 µg/mL)
2. Creatine (5 µg/mL)
3. Anserine (5 µg/mL)
4. Canosine (5 µg/mL)



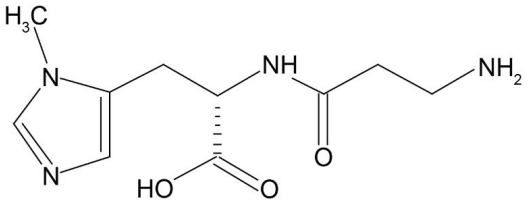
Carnosine



Creatine



Creatinine



Anserine

Experimental

Chromatographic Conditions

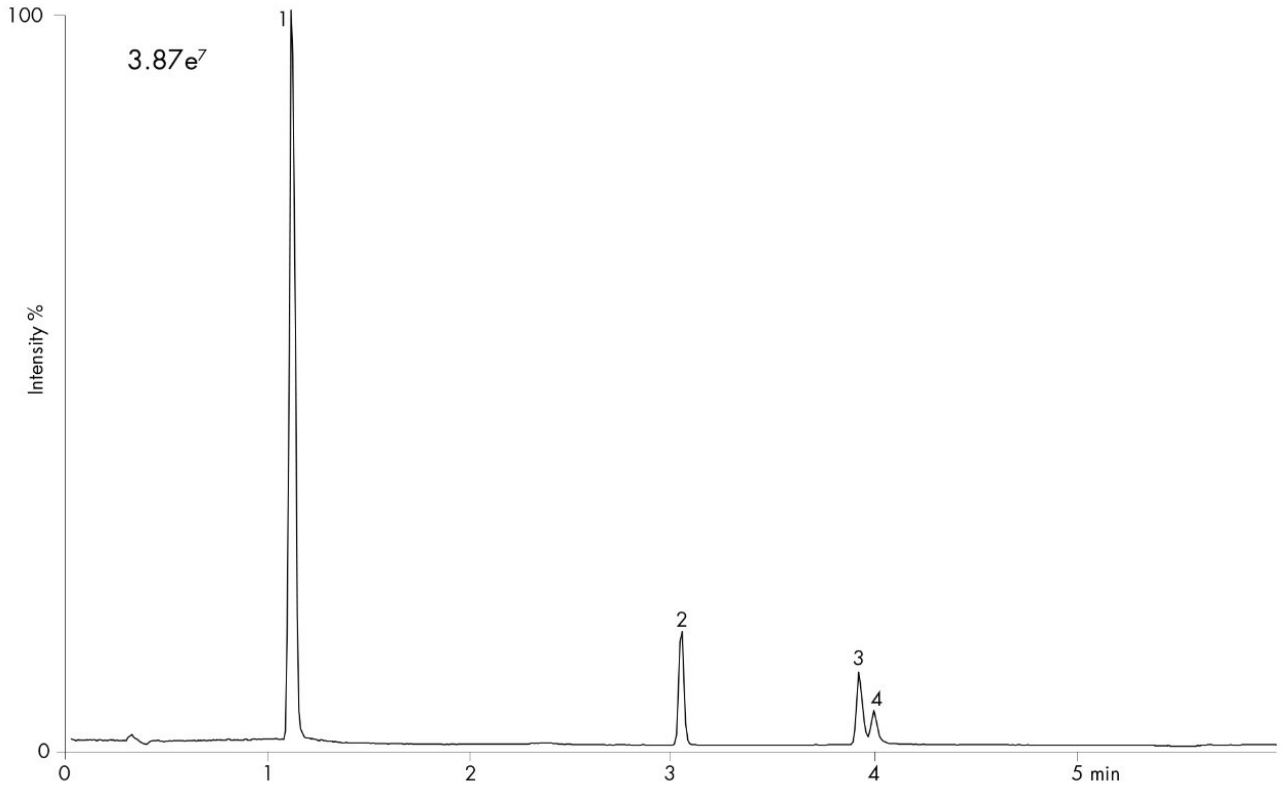
Column:	ACQUITY UPLC BEH HILIC, 2.1 x 50 mm, 1.7 µm
Part Number:	186004800
Mobile Phase A:	50/50 MeCN/H_2O with 10 mM CH_3COONH_4 and 0.04 % NH_4OH, pH 9.0
Mobile Phase B:	95/5 MeCN/H_2O with 10 mM CH_3COONH_4 and 0.04 % NH_4OH, pH 9.0

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/H_2O
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



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