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Analysis of Aromatic Amino Acids Using Atlantis T3

Waters Corporation

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

Abstract

This application brief highlights the analysis of aromatic amino acids.

Introduction

Compounds analysed in this application brief :

1. Tyrosine
2. Phenylalanine
3. Tryptophan

Experimental

Test Conditions

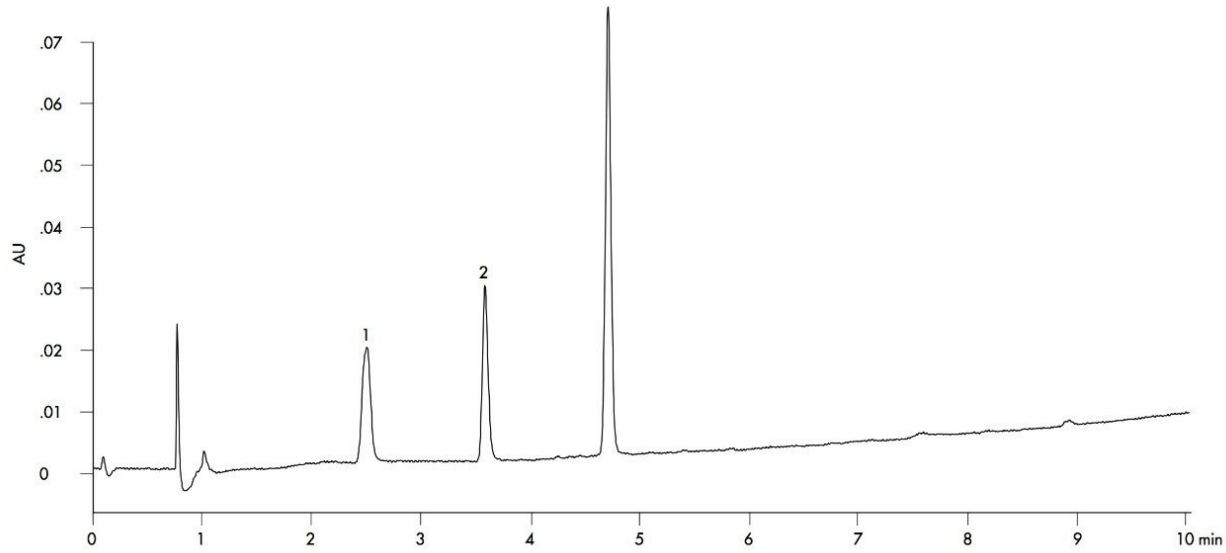
Column:	Atlantis T3, 4.6 x 50 mm, 3 µm
Part Number:	186003726
Mobile Phase A:	H_2O
Mobile Phase B:	MeOH
Mobile Phase C:	100 mM $HCOONH_4$, pH 3.0
Flow Rate:	1.0 mL/min
Injection Volume:	10 µL
Sample:	Tyrosine (150 µg/ mL), Phenylalanine (200 µg/mL), Trytophan (30 µg/mL) in H_2O

Column Temperature:	30 ˚C
Sample Temperature:	20 ˚C
Detection:	UV @ 254 nm
Sampling Rate:	5 point/sec
Filter Response:	0.2
Instrument:	Waters Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile
	%A
0.00	90
10.00	10
11.00	90
15.00	90

Results and Discussion



1. Tyrosine, 2. Phenylalanine, 3. Tryptophan

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2998 Photodiode Array (PDA) Detector <https://www.waters.com/1001362>

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