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Gradient Separation of Nutrients on XBridge HILIC

Waters Corporation

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

Abstract

This application note demonstrates the gradient separation of nutrients on XBridge HILIC.

Introduction

The compounds used in this study are:

- 1. Nicotinamide
- 2. Nicotinic acid
- 3. Thiamine

Nicotinamide

Nicotinic acid

Thiamine

Experimental

Method Conditions

Column: XBridge HILIC, 2.1 x 50 mm, 3.5 μm

Part Number: 186004432

Mobile Phase A: 10 mM NH₄COOH in H₂O, 0.125% HCOOH

in 50:50 ACN:H₂O

Mobile Phase B: 10 mM NH₄COOH in H₂O, 0.125% HCOOH

in 90:10 ACN:H₂O

Flow Rate: 0.6 mL/min

Sample Concentration: 25 μg/mL each

5 μL

Sample Diluent: 75:25 ACN:MeOH with 0.2% HCOOH

Column Temperature: 30 °C

Injection Volume:

Detection: UV @ 268 nm

Sampling Rate: 40 points/sec

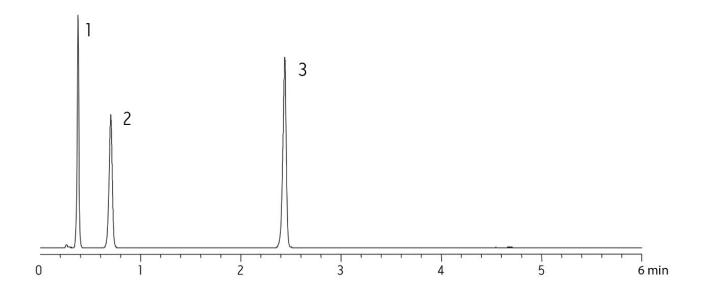
Filter Time Constant: 0.1

Instrument: Waters ACQUITY UPLC with ACQUITY PDA

Gradient

Time (min)	Profile	
	%A	%B
0.00	0.1	99.9
1.05	0.1	99.9
4.35	99.9	0.1
4.50	0.1	99.9
6.00	0.1	99.9

Results and Discussion



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ACQUITY UPLC PDA Detector https://www.waters.com/514225

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