

## Gradient Separation of Nutrients on Atlantis HILIC Silica

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Waters Corporation



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

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### Abstract

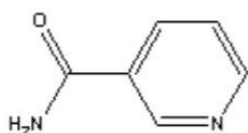
This application brief demonstrates the gradient separation of nutrients on Atlantis HILIC Silica Columns.

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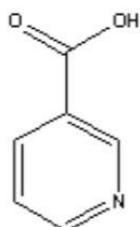
## Introduction

The compounds used in this study are:

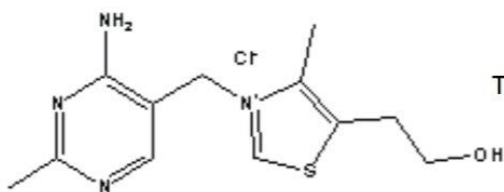
1. Nicotinamide
2. Nicotinic acid
3. Thiamine



Nicotinamide



Nicotinic acid



Thiamine

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## Experimental

### Method Conditions

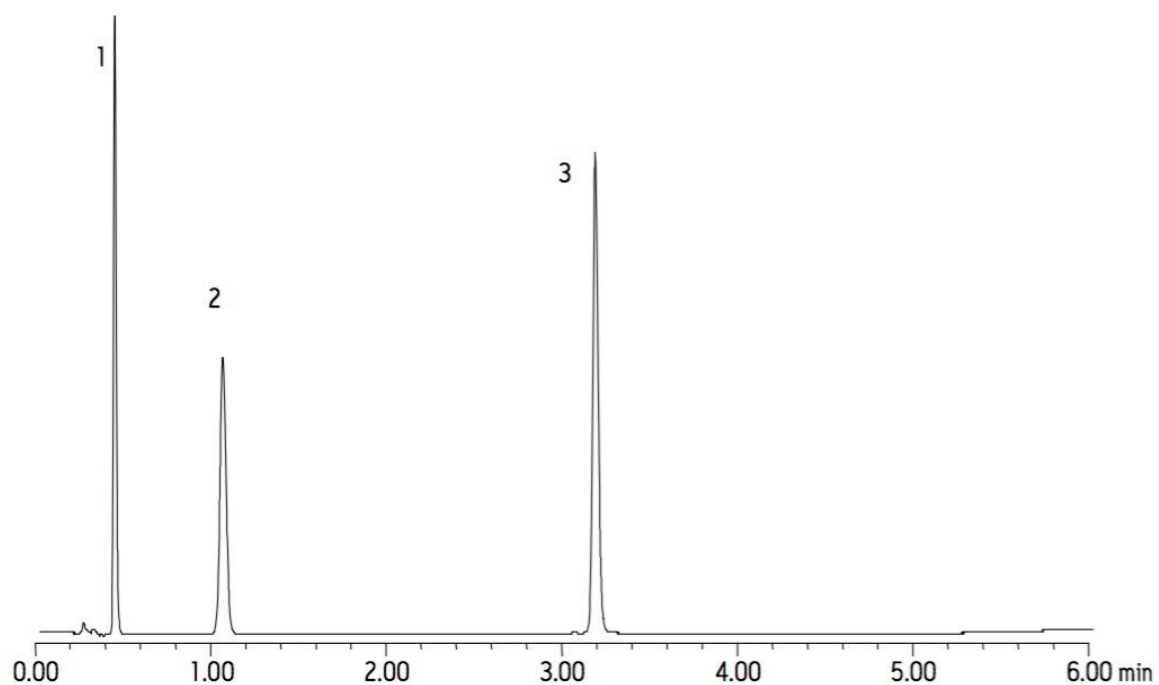
Column:	Atlantis HILIC Silica, 2.1 x 50 mm, 3 µm
Part Number:	186002011
Mobile Phase A:	10 mM NH <sub>4</sub> COOH in H <sub>2</sub> O, 0.125% HCOOH in 50:50 ACN:H <sub>2</sub> O
Mobile Phase B:	10 mM NH <sub>4</sub> COOH in H <sub>2</sub> O, 0.125% HCOOH in 90:10 ACN:H <sub>2</sub> O
Flow Rate:	0.6 mL/min
Injection Volume:	5 µL
Sample Concentration:	25 µg/mL each
Sample Diluent:	75:25 ACN:MeOH with 0.2% HCOOH
Column Temperature:	30 °C
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
0.00	0.1
1.05	0.1
4.35	99.9
4.50	0.1
6.00	0.1

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## Results and Discussion



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## Featured Products

ACQUITY UPLC System <<https://www.waters.com/514207>>

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

WA64072, August 2009

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