Waters™

应用纪要

ACQUITY UPLC HILIC Gradient Separation of Ascorbic Acid and Isoascorbic Acids

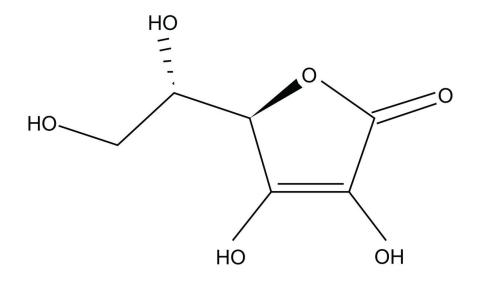
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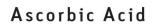
This is an Application Brief and does not contain a detailed Experimental section.

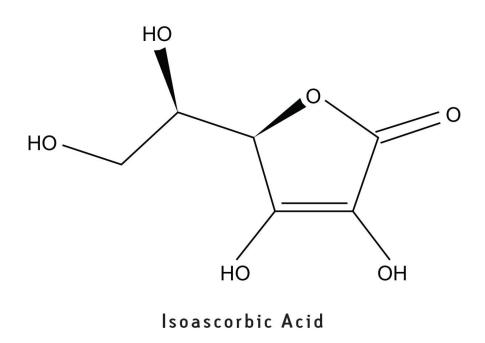
Abstract

This application brief highlights the gradient separation of ascorbic acid and isoascorbic acids using ACQUITY UPLC BEH Amide Columns.

Introduction







Experimental

Test Conditions

Columns:	ACQUITY UPLC BEH Amide, 2.1 x 100 mm, 1.7 μ m	
Part Number:	186004801	
Mobile Phase A:	50/50 MeCN/H ₂ O with 10 mM CH ₃ COONH ₄ and 0.02% CH ₃ COOH, pH 5.0	
Mobile Phase B:	90/10 MeCN/H ₂ O with 10 mM CH ₃ COONH ₄ and 0.02% CH ₃ COOH, pH 5.0	
Flow Rate:	0.2 mL/min	
Injection Volume:	5.0 μL (PLNO)	
Sample Concentration:	30 μg/mL each	
Sample Diluent:	75/25 MeCN/MeOH with 0.2% HCOOH	
Column Temperature:	25 °C	
Weak Needle Wash:	95/5 MeCN/H ₂ O	
Detection:	UV @ 260nm	
Sampling Rate:	20 points/sec	
Filter Time Constant:	0.2	

Gradient

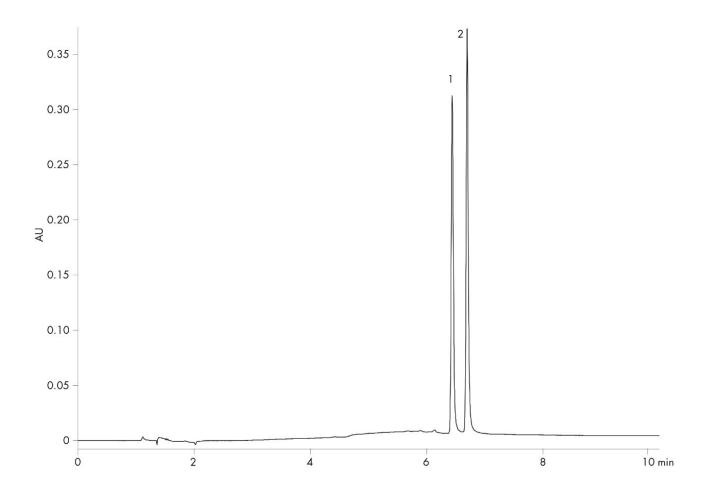
Time (min)	Profile	
	%A	%B
Initial	0.1	99.9
10.00	99.9	0.1
10.01	0.1	99.9
15.00	0.1	99.9

Results and Discussion

The compounds used in this syudy are:

1. Isoascorbic acid

2. Ascorbic acid



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WA60105, June 2009

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