Waters™

Note d'application

Gradient Separation of Amino Acids on ACQUITY UPLC BEH HILIC

Waters Corporation

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

Experimental

Test Conditions

Column:	ACQUITY UPLC BEH HILIC, 2.1 x 50 mm, 1.7 µm
Part Number:	186003460
Mobile Phase A:	10 mM NH_4COOH, 0.2% HCOOH in 50:50 ACN: H_2O
Mobile Phase B:	10 mM NH_4COOH, 0.2% HCOOH in 90:10 ACN: H_2O
Flow Rate:	0.529 mL/min
Injection Volume:	5.0 µL
Sample Concentration:	5 µg/mL

Sample Diluent:	73:25:2 ACN:MeOH:H_2O with 0.2% HCOOH and 5 µM HCl
Temperature:	30 C
Instrument:	Waters ACQUITY UPLC with SQ Mass Detector

Gradient:

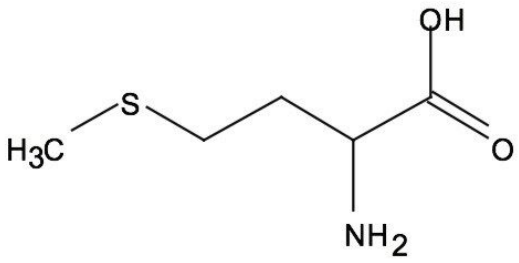
Time (min)	%A	%B
0.0	0.1	99.9
1.65	0.1	99.9
4.49	99.9	0.1
4.54	0.1	99.9
5.05	0.1	99.9

MS Conditions

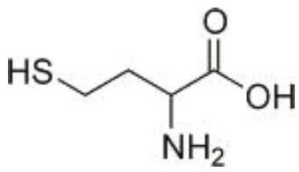
Ionization Mode:	ES^+
Capillary:	3.0 kV
Cone:	20 V
Extractor:	3 V
RF Lens:	0.3 V
Source Temperature:	150 °C

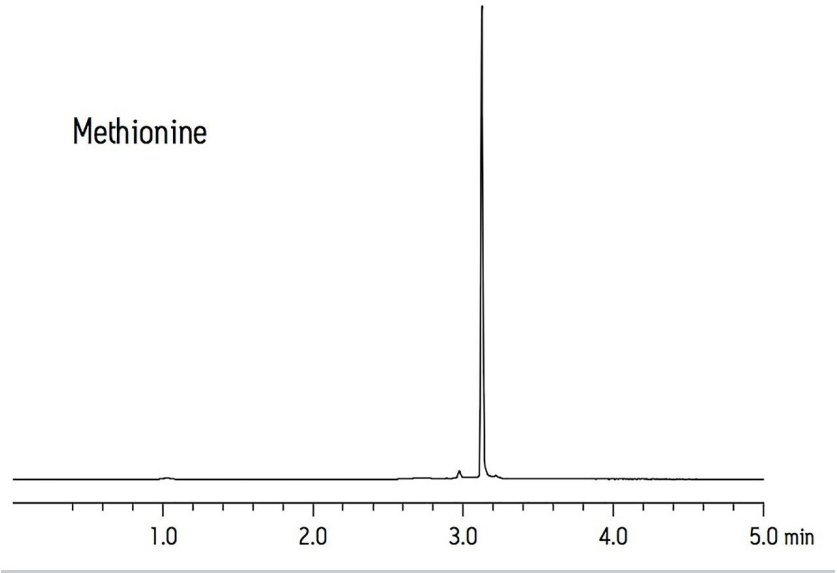
Desolvation Temperature:	350 °C
Cone Gas Flow:	50 L/Hr
Desolvation Gas Flow:	700 L/Hr
SIR:	136.1 m/z Homocysteine 150.2 m/z Methionine

Methionine

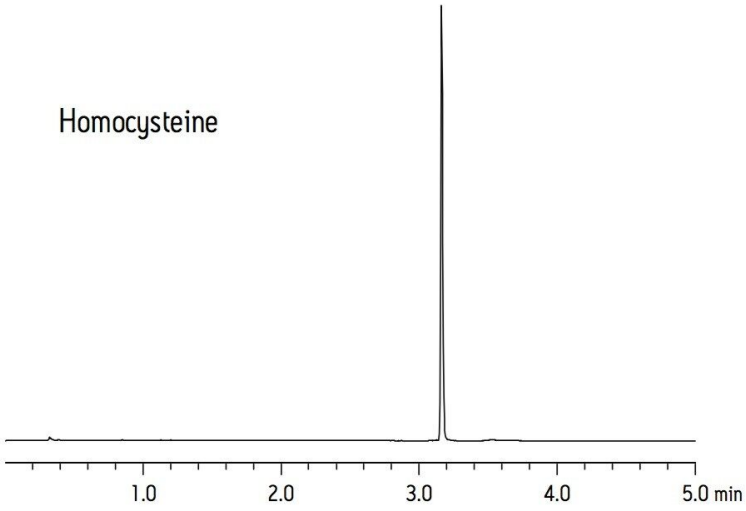


Homocysteine





wa60134-f2



Featured Products

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

SQ Detector 2 <https://www.waters.com/134631584>

Available for Purchase Online

ACQUITY UPLC BEH HILIC Column, 130Å, 1.7 µm, 2.1 mm X 50 mm, 1/pkg <
https://www.waters.com/waters/partDetail.htm?cid=511505&id=28049>

WA60134, August 2009