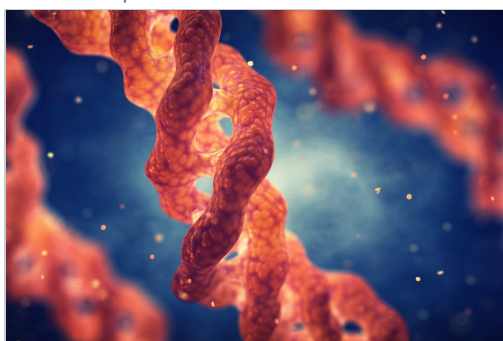


Application Note

## 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.

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# Experimental

## Test Conditions

Column:	ACQUITY UPLC BEH HILIC, 2.1 x 50 mm, 1.7 $\mu$ m
Part Number:	186003460
Mobile Phase A:	10 mM $\text{NH}_4\text{COOH}$ , 0.2% $\text{HCOOH}$ in 50:50 ACN: $\text{H}_2\text{O}$
Mobile Phase B:	10 mM $\text{NH}_4\text{COOH}$ , 0.2% $\text{HCOOH}$ in 90:10 ACN: $\text{H}_2\text{O}$
Flow Rate:	0.529 mL/min
Injection Volume:	5.0 $\mu$ L
Sample Concentration:	5 $\mu$ g/mL
Sample Diluent:	73:25:2 ACN:MeOH: $\text{H}_2\text{O}$ with 0.2% $\text{HCOOH}$ and 5 $\mu$ M $\text{HCl}$
Temperature:	30 C
Instrument:	Waters ACQUITY UPLC with SQ Mass Detector

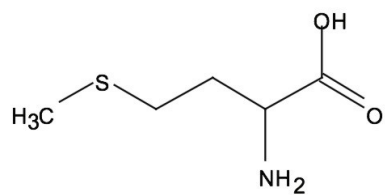
## Gradient:

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

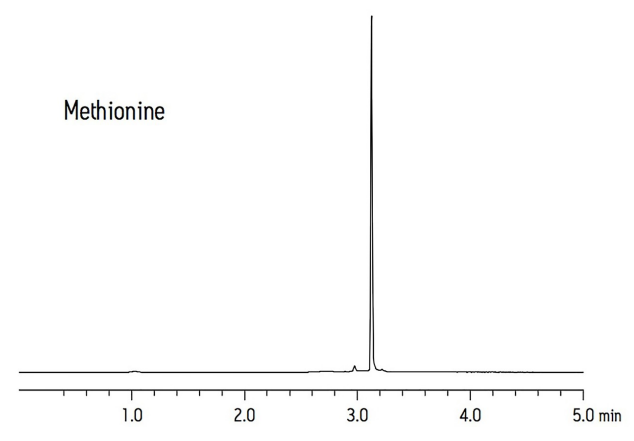
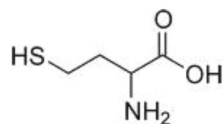
## MS Conditions

Ionization Mode:	ES <sup>+</sup>
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

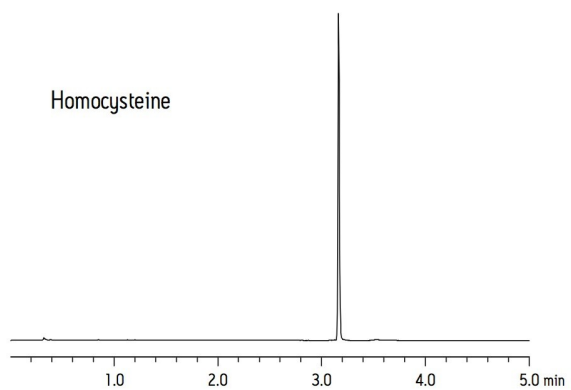
## Methionine



## Homocysteine



wa60134-f2



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## Featured Products

[ACQUITY UPLC System](#)

[SQ Detector 2](#)

[Available for Purchase Online](#)

[ACQUITY UPLC BEH HILIC Column, 130Å, 1.7 µm, 2.1 mm X 50 mm, 1/pkg](#)

WA60134, August 2009