Waters™

Applikationsbericht

Gradient Chemical Stability Study of ACQUITY UPLC BEH HILIC

Waters Corporation

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

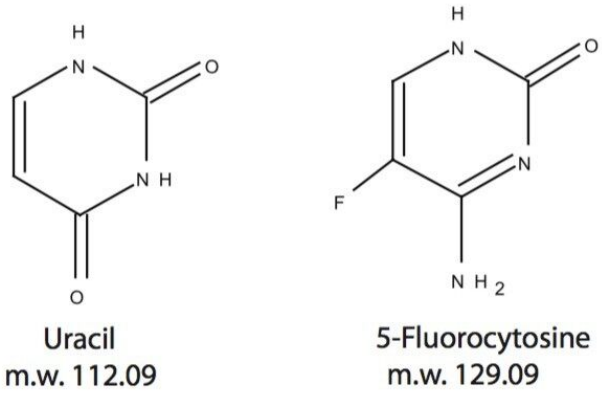
Abstract

This application brief demonstrates the gradient chemical stability study on ACQUITY UPLC BEH HILIC.

Introduction

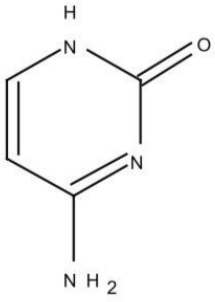
The compounds used in this study are:

1. Uracil
2. 5-Fluorocytosine
3. Cytosine



Uracil
m.w. 112.09

5-Fluorocytosine
m.w. 129.09



Cytosine
m.w 111.1

Experimental

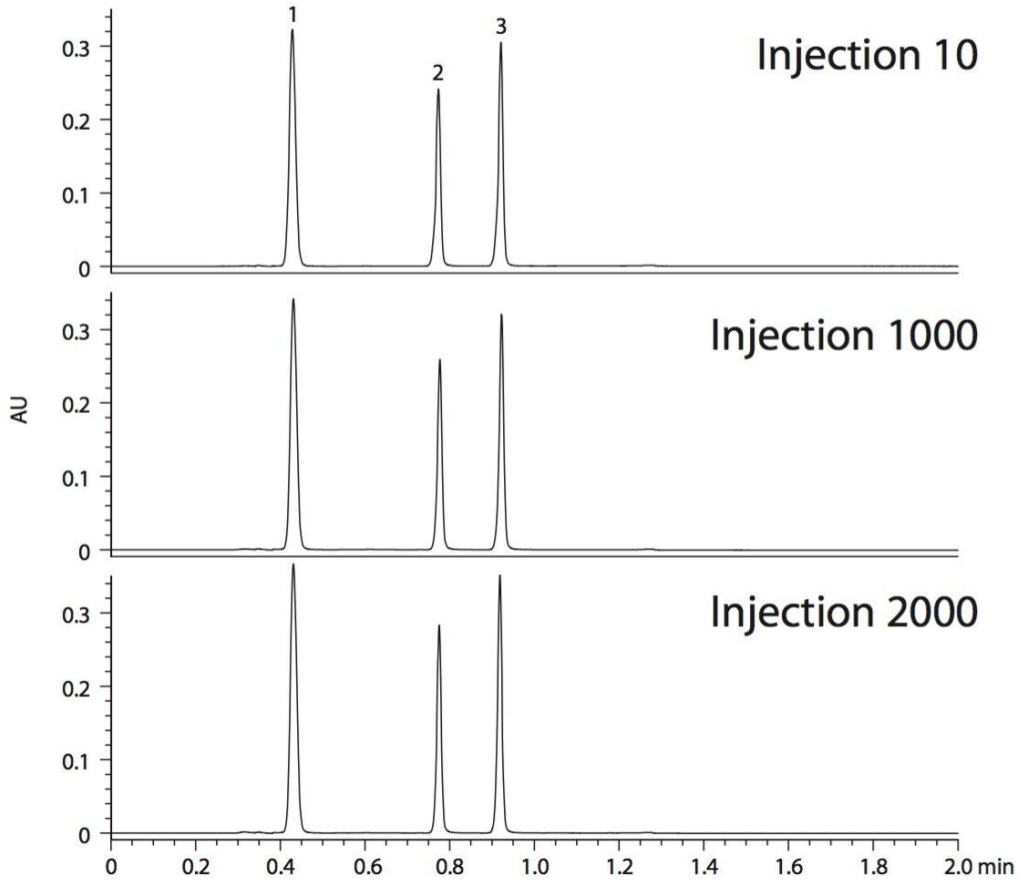
Test Conditions

Columns:	ACQUITY UPLC BEH HILIC, 2.1 x 50 mm, 1.7 µm
Part Number:	186003460
Mobile Phase A:	95:5 acetonitrile:water with 10 mM NH_4+CH_3 COO- pH 5.5
Mobile Phase B:	50:50 acetonitrile:water with 10 mM NH_4+CH_3 COO- pH 5.5
Flow Rate:	0.5 mL/min
Injection Volume:	2.0 µL (full loop)
Weak Needle Wash:	95:5 acetonitrile:water
Sample Diluent:	75:25 acetonitrile:methanol
Temperature:	30 °C
Detection:	UV @ 254 nm
Sampling Rate:	40 pts/sec
Time Constant:	0.05
Instrument:	Waters ACQUITY UPLC with TUV detector

Gradient

Time (min)	Profile	Curve
	%A	%B
0.0	99	1
2.0	1	99
2.1	99	1
2.5	99	1

Results and Discussion



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

ACQUITY UPLC Tunable UV Detector <https://www.waters.com/514228>

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