Waters™

Gradient Chemical Stability Study on XBridge 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 XBridge HILIC column.

Introduction

The compounds used in this study are-

1. Uracil
2. 5-Fluorocytosine
3. Cytosine

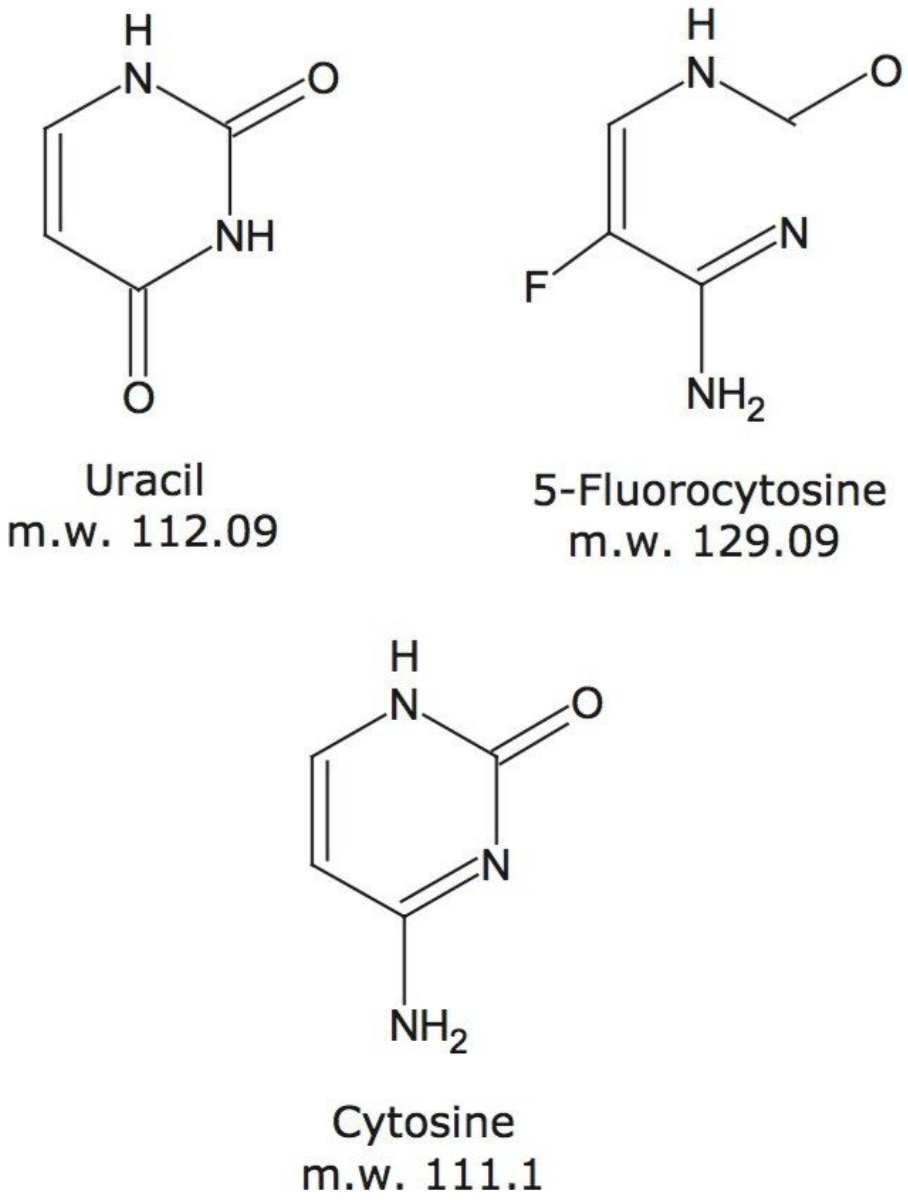


Figure 1. Structures of the compounds used in this study.

Experimental

Test Conditions

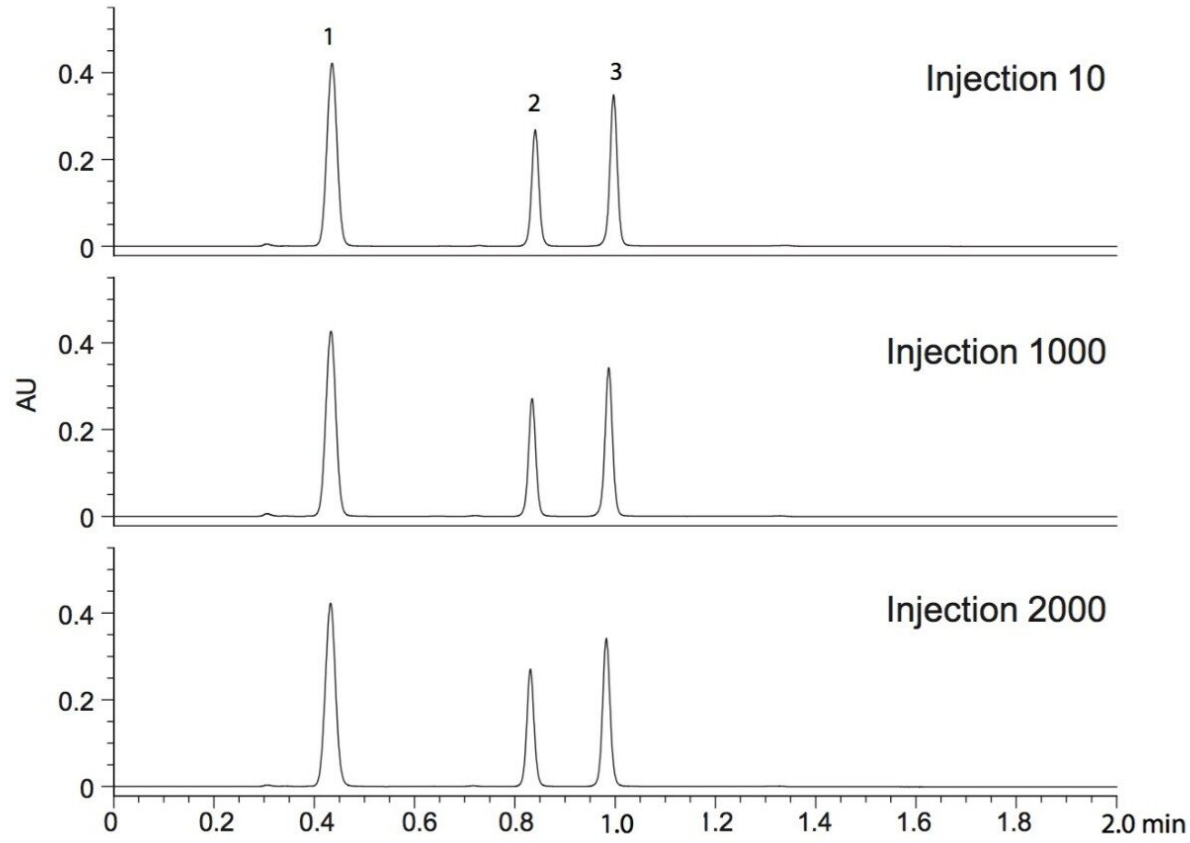
Column:	XBridge HILIC, 2.1 x 50 mm, 3.5 µm
Part Number:	186004432
Mobile Phase A:	95:5 acetonitrile:water with 10 mM NH_4 + CH_3COO- pH 5.5
Mobile Phase B:	50:50 acetonitrile:water with 10 mM NH_4 + CH_3COO- pH 5.5
Flow Rate:	0.5 mL/min
Injection Volume:	2.0 µL (full loop)
Weak Needle Wash:	95:5 acetonitrile:water
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	99	1	6
2.0	1	99	6
2.1	99	1	6
2.5	99	1	6

Results and Discussion



Featured Products

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

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

WA64080, August 2009