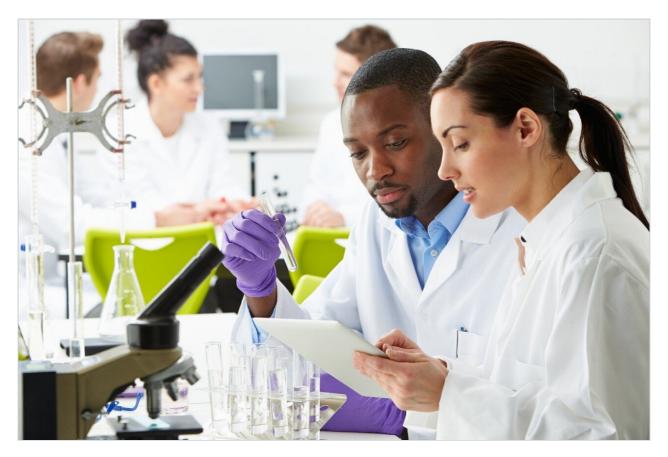
Waters™

Application Note

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

m.w. 111.1

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

 $10 \text{ mM NH}_4 + \text{CH}_3\text{COO- pH}$

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

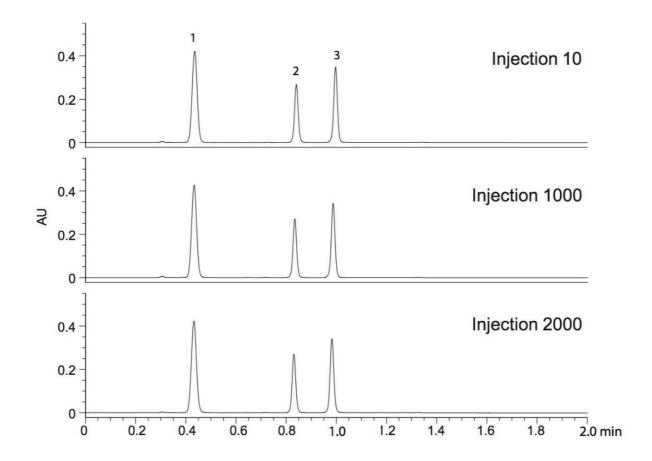
TUV detector

Gradient:

Time(min) Profile Curve

	%A	%B	
0	99	1	6
2.0	1	99	6
2.1	99	1	6
2.5	99	1	6

Results and Discussion



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

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

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