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アプリケーションノート

# Gradient Chemical Stability Study on XBridge HILIC

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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

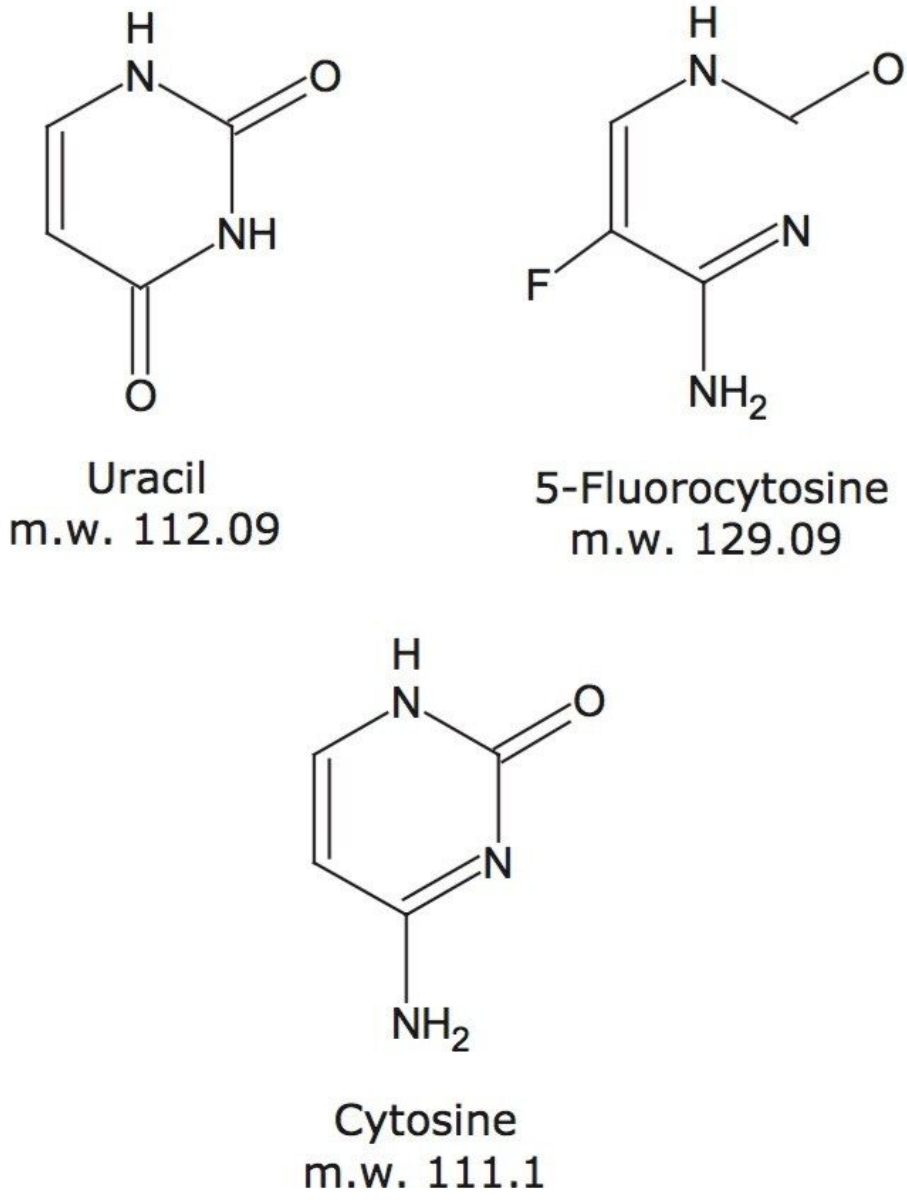



*Figure 1. Structures of the compounds used in this study.*

## Experimental

### Test Conditions

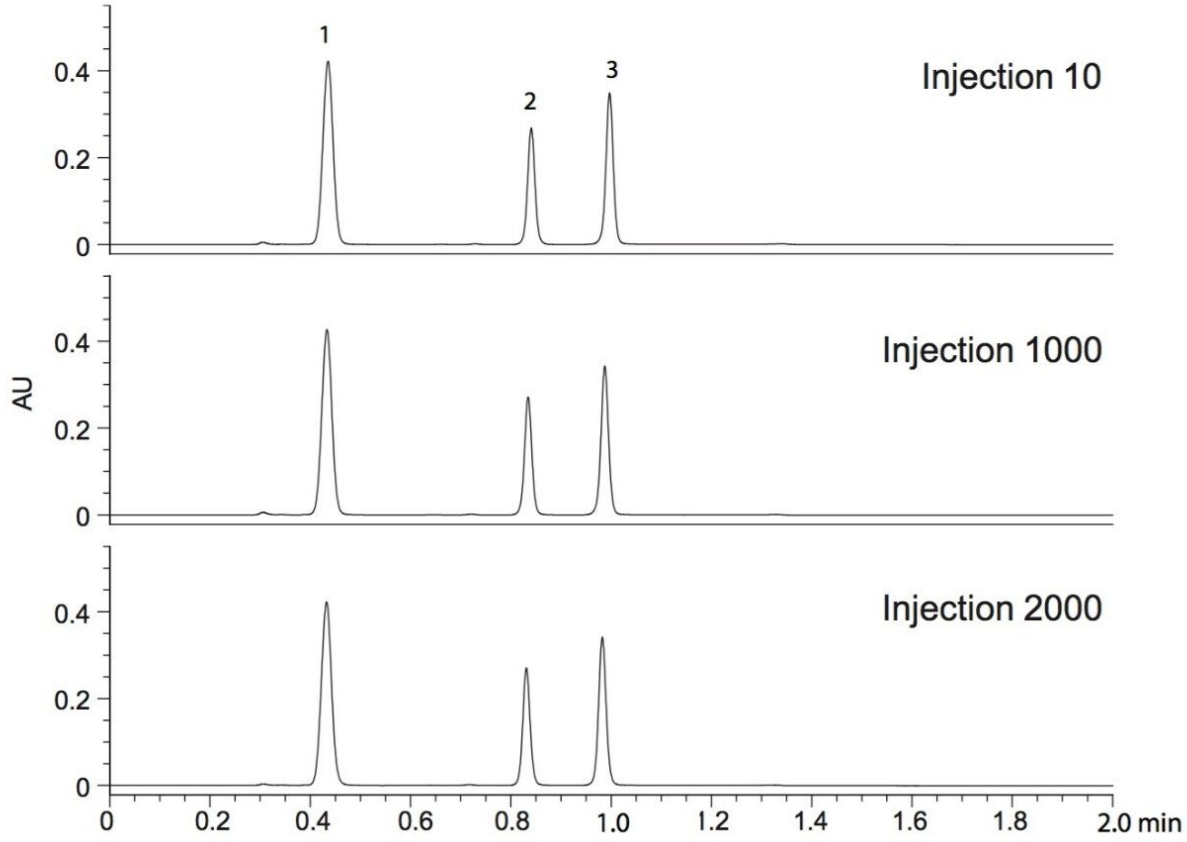
| | |
|---|---|
| Column: | XBridge HILIC, 2.1 x 50 mm, 3.5 µm |
| Part Number: | 186004432 |
| Mobile Phase A: | 95:5 acetonitrile:water with 10 mM $NH_4$ + $CH_3COO$- pH 5.5 |
| Mobile Phase B: | 50:50 acetonitrile:water with 10 mM $NH_4$ + $CH_3COO$- pH 5.5 |
| Flow Rate: | 0.5 mL/min |
| Injection 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>

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