

## Cold Products

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Waters Corporation



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

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### Abstract

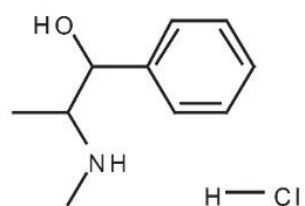
This application brief highlights the analysis of cold products using XTerra MS C<sub>18</sub> columns.

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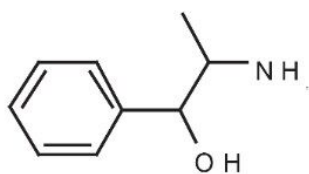
## Introduction

Compounds used in this application brief are:

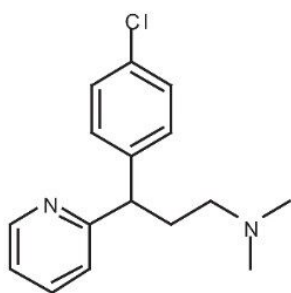
1. Maleic acid
2. Phenylpropanolamine
3. Pseudoephedrine
4. Chlorpheniramine



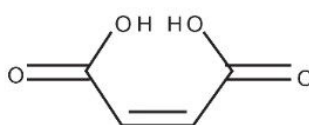
Pseudoephedrine



Phenylpropanolamine



Chlorpheniramine



Maleic acid

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Experimental

## HPLC Conditions

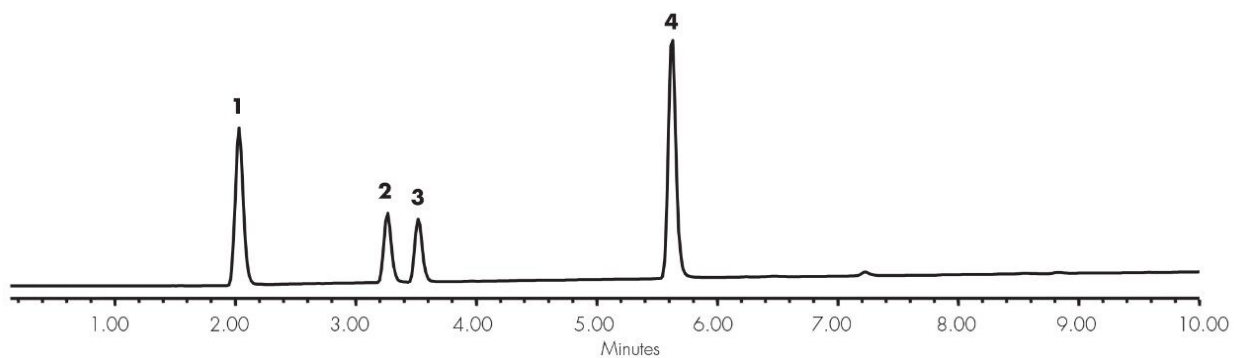
|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Column:           | XTerra MS C <sub>18</sub> 2.1 x 150 mm, 5 µm (p/n: 186000491) |
| Mobile phase A:   | H <sub>2</sub> O                                              |
| Mobile phase B:   | ACN                                                           |
| Mobile phase C:   | 100 mM NH <sub>4</sub> COOH, pH 3.8                           |
| Flow rate:        | 1.0 mL/min                                                    |
| Injection volume: | 10 µL                                                         |
| Temperature:      | 30 °C                                                         |
| Detection:        | UV @ 254 nm                                                   |
| Instrument:       | Alliance 2695, 2996 PDA                                       |

## Gradient

| Time (min) | Profile |    |    |
|------------|---------|----|----|
|            | %A      | %B | %C |
| 0.0        | 85      | 5  | 10 |
| 10.0       | 0       | 90 | 10 |

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## Results and Discussion



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## Featured Products

Alliance HPLC <<https://www.waters.com/514248>>

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