

응용 자료

## Diuretics - Gradient, pH 3.6

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Waters Corporation



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

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### Abstract

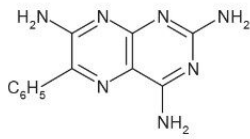
This application brief demonstrates analysis of diuretics.

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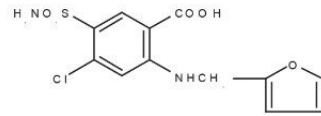
## Introduction

The compounds used in this study are –

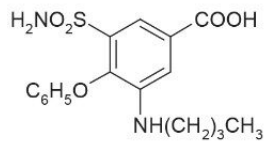
1. Triamterene
2. Chlorthalidone
3. Althiazide
4. Furosemide
5. Benzthiazide
6. Probenecid
7. Ethacrynic acid
8. Bumetanide
9. Canrenoic acid



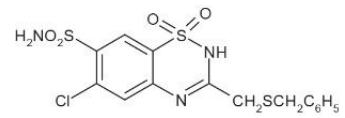
Triamterene



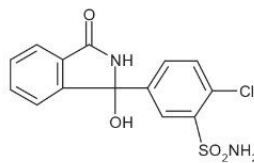
Furosamide



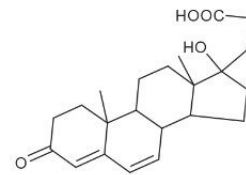
Bumetanide



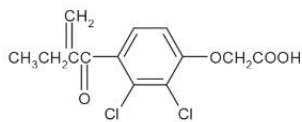
Benzthiazide



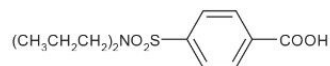
Chlorthalidone



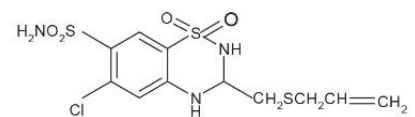
Canrenoic acid



Ethacrynic acid



Probenecid



Althiazide

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Experimental

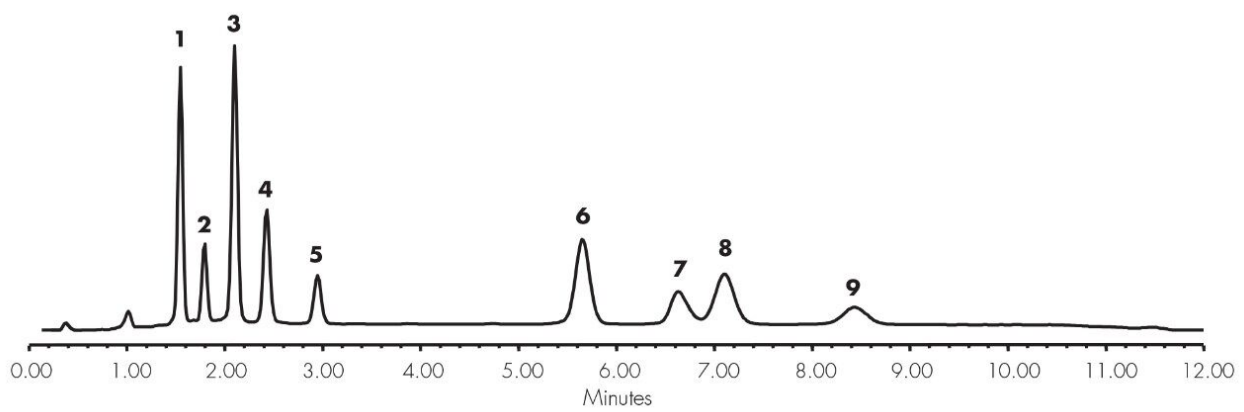
Conditions

|                   |                                               |
|-------------------|-----------------------------------------------|
| Column:           | Xterra MS C <sub>18</sub> 4.6 x 50 mm, 3.5 μm |
| Part number:      | 186000432                                     |
| Mobile phase A:   | H <sub>2</sub> O                              |
| Mobile phase B:   | MeOH                                          |
| Mobile phase C:   | 100 mM NH <sub>4</sub> COOH, pH 3.6           |
| Flow rate:        | 2.0 mL/min                                    |
| Injection volume: | 20 μL                                         |
| Temperature:      | 30 °C                                         |
| Detection:        | UV @ 254 nm                                   |
| Instrument:       | Alliance 2695, 2996 PDA                       |

Gradient

| Time<br>(min) | Profile |    |    |
|---------------|---------|----|----|
|               | %A      | %B | %C |
| 0.0           | 90      | 0  | 10 |
| 1.0           | 50      | 40 | 10 |
| 3.0           | 46      | 44 | 10 |
| 10.0          | 46      | 44 | 10 |
| 11.0          | 90      | 90 | 10 |
| 15.0          | 90      | 90 | 10 |

Results and Discussion



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Alliance HPLC System <<https://www.waters.com/534293>>

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