

Diuretics - Gradient, pH 3.6

Waters Corporation



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

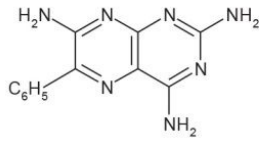
Abstract

This application brief demonstrates analysis of diuretics.

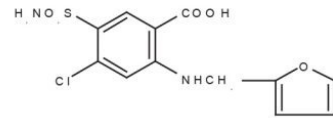
Introduction

The compounds used in this study are –

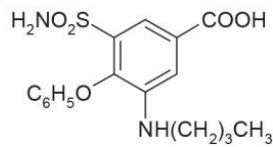
1. Triamterene
2. Chlorthalidone
3. Althiazide
4. Furosemide
5. Benzthiazide
6. Probenecid
7. Ethacrynic acid
8. Bumetanide
9. Canrenoic acid



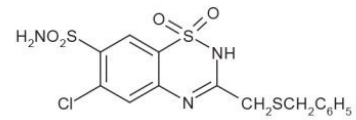
Triamterene



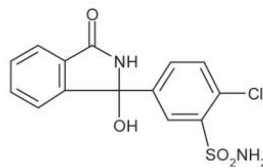
Furosamide



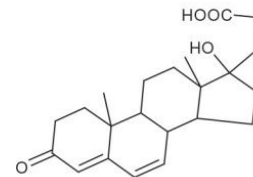
Bumetanide



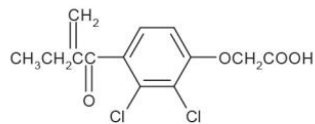
Benzthiazide



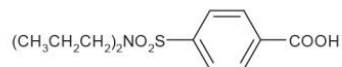
Chlorthalidone



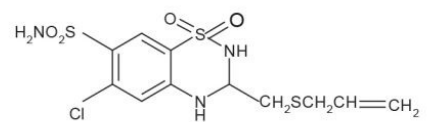
Canrenoic acid



Ethacrynic acid



Probenecid



Althiazide

Experimental

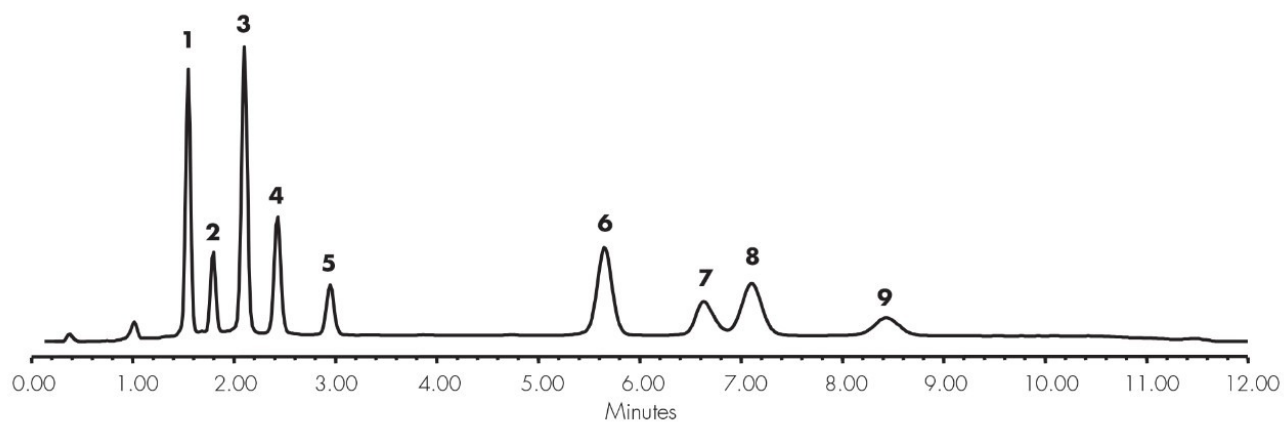
Conditions

Column:	Xterra MS C ₁₈ 4.6 x 50 mm, 3.5 µm
Part number:	186000432
Mobile phase A:	H ₂ O
Mobile phase B:	MeOH
Mobile phase C:	100 mM NH ₄ 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 (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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