

Analysis of Anesthetics Using Atlantis T3 Columns

Waters Corporation



Abstract

This application brief demonstrates analysis of anesthetics using Atlantis T3 Columns.

Introduction

The compounds used in this study are -

1. Procaine
2. Lidocaine
3. Butacaine
4. Benzocaine
5. Tetracaine

Experimental

Test Conditions

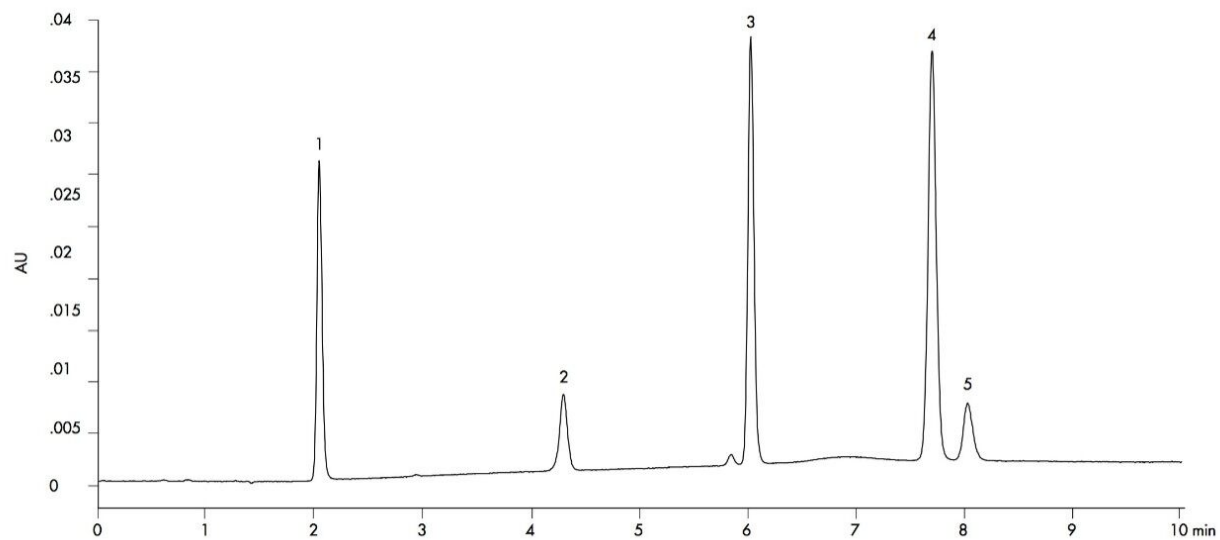
Column:	Atlantis T3, 4.6 x 150 mm, 5 μ m
Part number:	186003747
Mobile phase A:	H ₂ O
Mobile phase B:	MeOH
Mobile phase C:	100 mM HCOONH ₄ , pH 3.75
Flow rate:	1.4 mL/min
Injection volume:	5 μ L
Sample:	Procaine (30 μ g/mL), Lidocaine (100 μ g/mL),

	Butacine (60 µg/mL)
	Benzocaine(30 µg/mL),
	Tetracaine (60 µg/mL) in H ₂ O
Column temperature:	30 °C
Sample temperature:	15 °C
Detection:	UV @ 254 nm
Sampling rate:	5 point/sec
Filter response:	0.2
Instrument:	Waters Alliance 2695 with 2996 PDA

Gradient

Time(min)	Profile		
	%A	%B	%C
0.00	65	25	10
5.00	40	50	10
10.00	40	50	10
11.00	65	25	10
15.00	65	25	10

Results and Discussion



Featured Products

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

WA60218, January 2009