

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 µg/mL),
Butacine (60 µg/mL)
Benzocaine(30 µg/mL),
Tetracaine (60 µg/mL) in H₂O

Column temperature: 30 °C

Sample temperature: 15 °C

Detection: UV @ 254 nm

Sampling rate: 5 point/sec

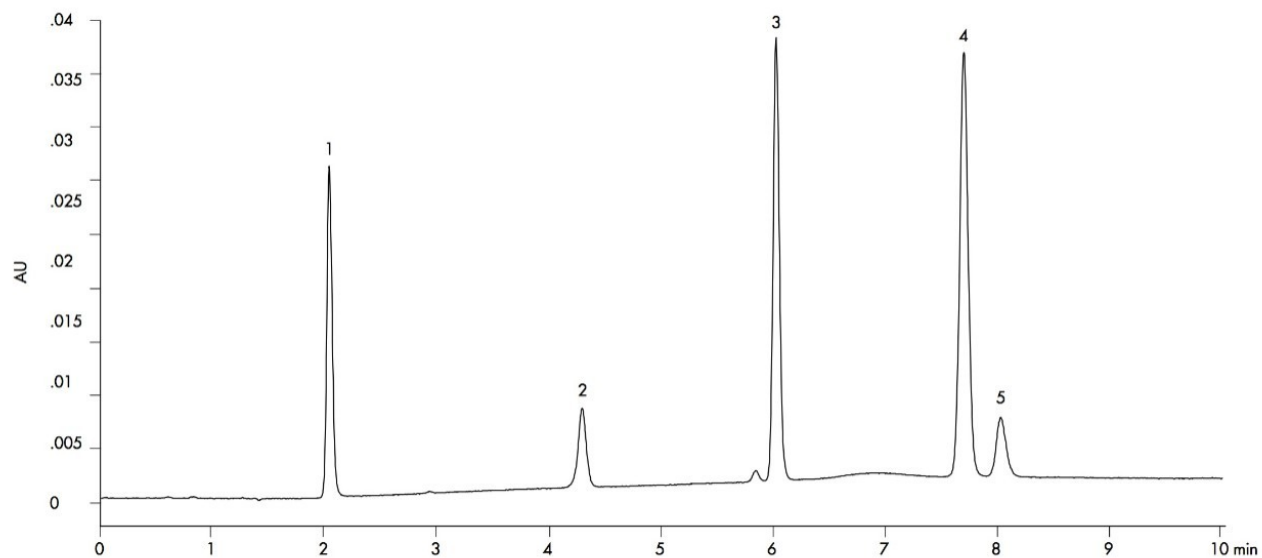
Filter response: 0.2

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>](https://www.waters.com/534293)

WA60218, January 2009



© 2021 Waters Corporation. All Rights Reserved.