

Nota applicativa

## Analysis of Anesthetics Using Atlantis T3 Columns

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Waters Corporation



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### Abstract

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

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## Introduction

The compounds used in this study are -

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

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## Experimental

### Test Conditions

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

Butacine (60 µg/mL)  
Benzocaine(30 µg/mL),  
Tetracaine (60 µg/mL) in H<sub>2</sub>O

Column temperature: 30 °C

Sample temperature: 15 °C

Detection: UV @ 254 nm

Sampling rate: 5 point/sec

Filter response: 0.2

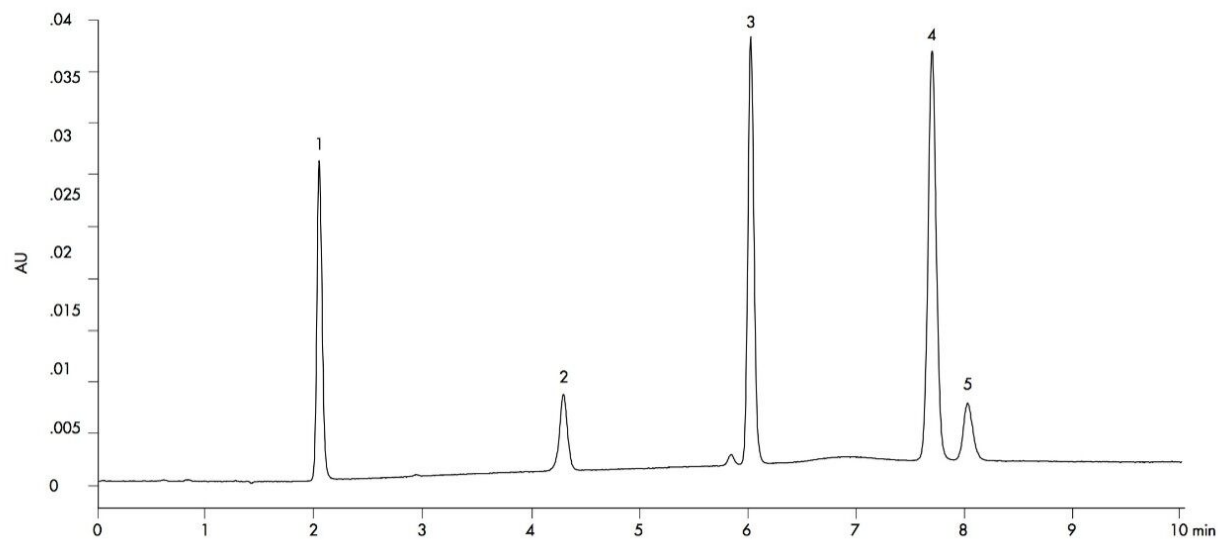
Instrument: Waters Alliance 2695 with 2996 PDA

## 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

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## Results and Discussion



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