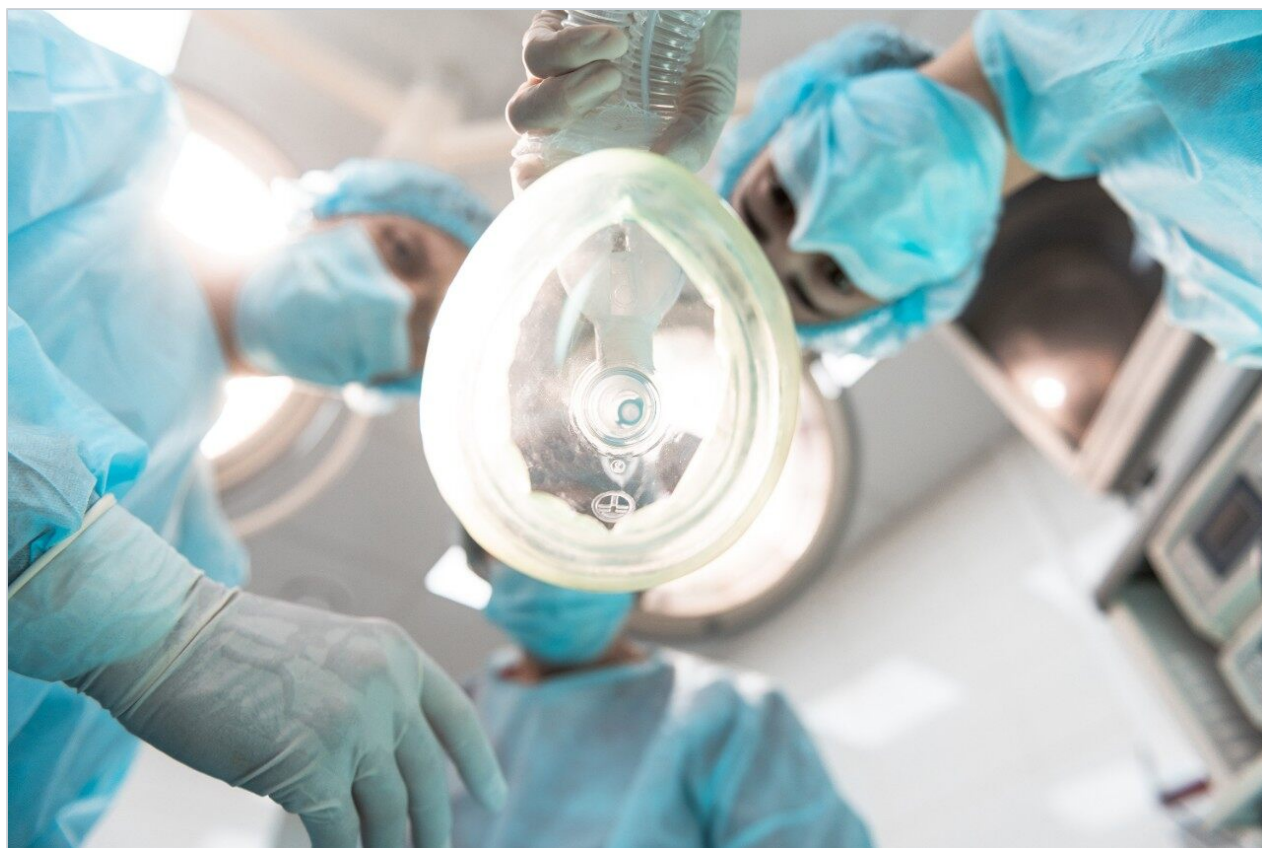


Note d'application

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

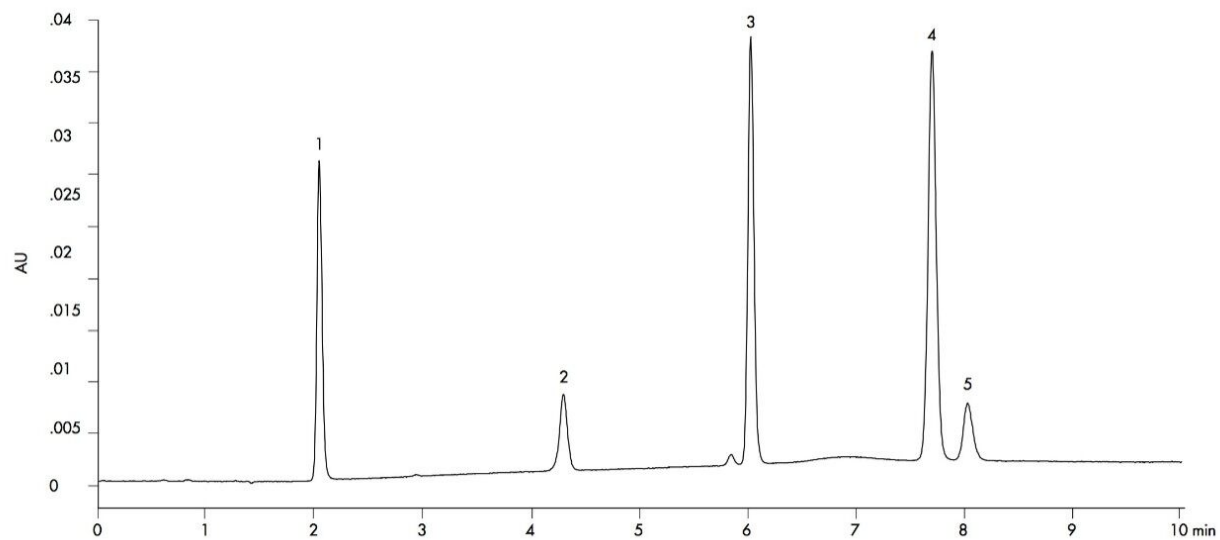
Column:	Atlantis T3, 4.6 x 150 mm, 5 µm
Part number:	186003747
Mobile phase A:	H ₂ O
Mobile phase B:	MeOH
Mobile phase C:	100 mM HCOONH ₄ , pH 3.75
Flow rate:	1.4 mL/min
Injection volume:	5 µL
Sample:	Procaine (30 µg/mL), Lidocaine (100 µg/mL),

	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



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WA60218, January 2009