

Analysis of β -Blockers on Atlantis T3 Columns

Waters Corporation



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

Abstract

This application brief demonstrates analysis of β -blockers on Atlantis T3 Columns.

Introduction

The compounds used in this study are -

1. Atenolol
2. Pindolol
3. Metoprolol
4. Oxprenolol
5. Labetalol
6. Propranolol

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:	ACN
Mobile phase C:	100 mM HCOONH ₄ , pH 3.0
Flow rate:	2.0 mL/min
Injection volume:	10 μ L

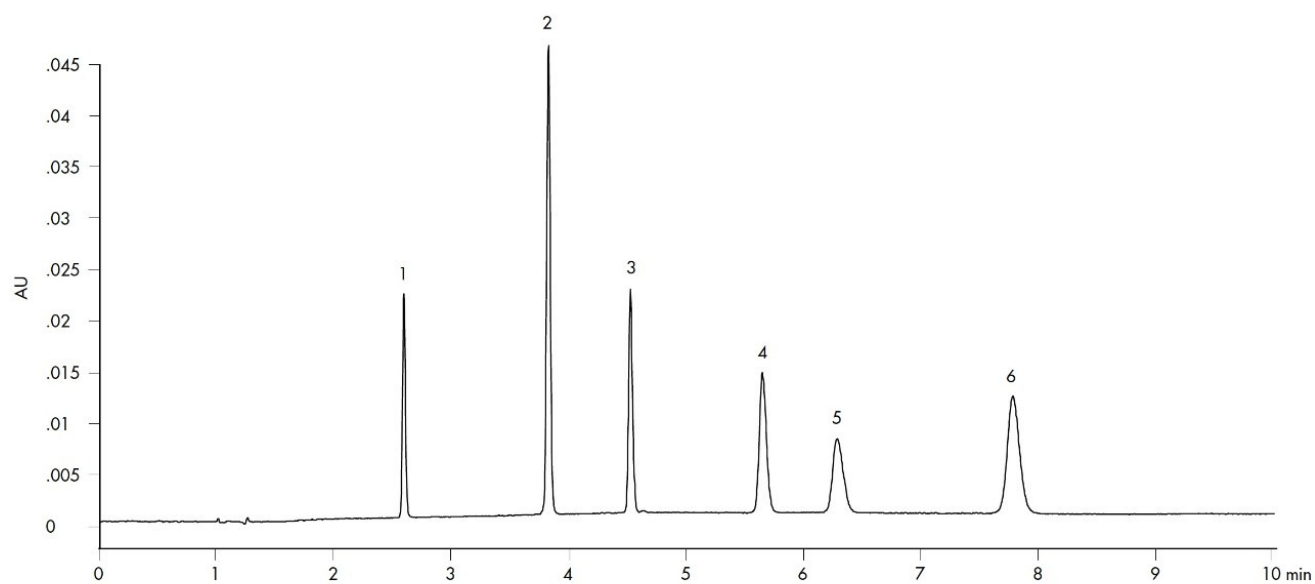
Sample:	Atenolol (40µg/mL), Pindolol (20 µg/mL), Metoprolol (60 µg/mL), Oxprenolol (40 µg/mL), Labetalol (60 µg/mL), Propranolol (20 µg/mL) in H ₂ O/ACN (95/5)
Column temperature:	30 °C
Sample temperature:	15 °C
Detection:	UV @ 280 nm
Sampling rate:	5 point/sec
Filter response:	0.2
Instrument:	Waters Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.00	85	5	10
3.00	65	25	10
10.00	65	25	10

11.00	85	5	10
15.00	85	5	10

Results and Discussion



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