Waters™

Tricyclic Antidepressants: SunFire Intelligent Speed Separation

Waters Corporation

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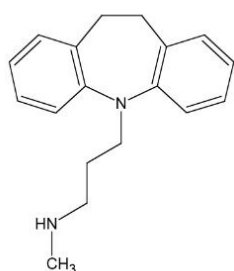
Abstract

This application brief demonstrates analysis of tricyclic antidepressants using SunFire Intelligent speed separation.
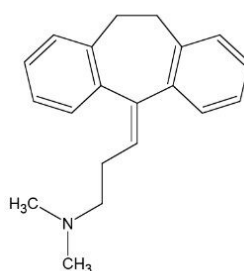
Introduction
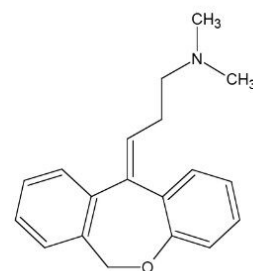
The compounds used in this study are -

Compounds	USP tailing
1. Trimipramine	1.134
2. Triprolidine	1.189
3. Doxepin	1.255
4. Despiramine	1.128
5. Amitriptyline	1.202

Desipramine

Triprolidine

Amitriptyline

Trimipramine

Doxepin
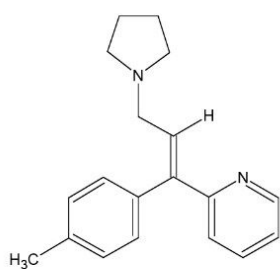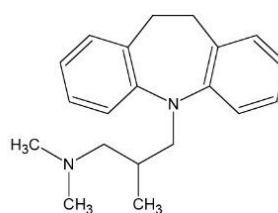
Experimental

Conditions

Column:	SunFire C$_{18}$ 4.6 x 20 mm *IS*, 3.5 µm
Part number:	186002549
Mobile phase A:	0.1% HCOOH in Water
Mobile phase B:	0.1% HCOOH in ACN
Flow rate:	3.0 mL/min
Injection volume:	10 µL
Sample concentration:	20 µg/mL in water
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	95	5
4.0	70	30

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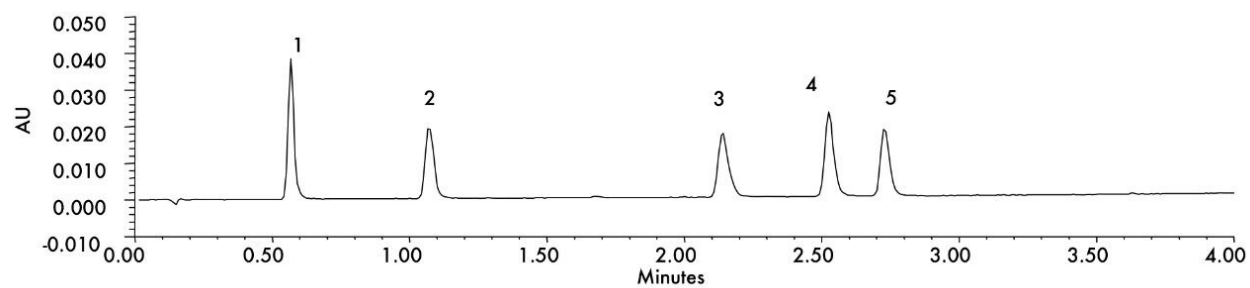
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Alliance HPLC System <https://www.waters.com/534293>

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