



Tricyclic Antidepressants: SunFire Intelligent Speed Separation

Waters Corporation



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

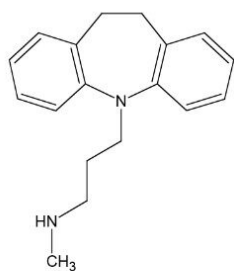
Abstract

This application brief demonstrates analysis of tricyclic antidepressants using SunFire Intelligent speed separation.

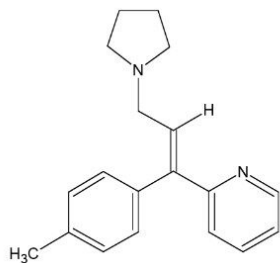
Introduction

The compounds used in this study are -

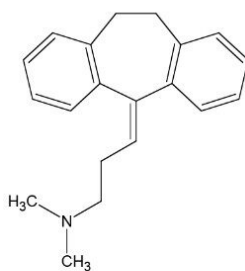
Compounds	USP tailing
1. Trimipramine	1.134
2. Triprolidine	1.189
3. Doxepin	1.255
4. Desipramine	1.128
5. Amitriptyline	1.202



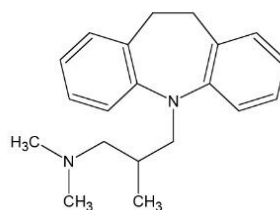
Desipramine



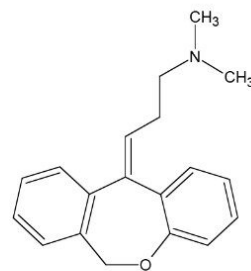
Triprolidine



Amitriptyline



Trimipramine



Doxepin

Experimental

Conditions

Column: SunFire C₁₈ 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

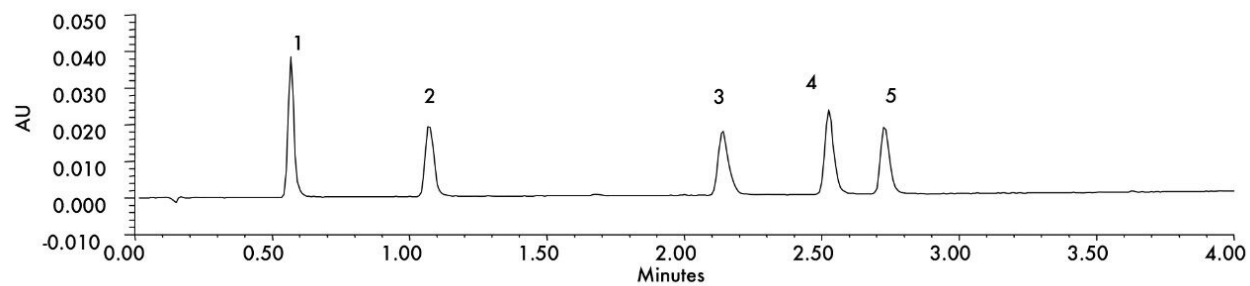
Detection: UV @ 254 nm

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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