Waters™

Nota de aplicación

Tricyclic Antidepressants

Waters Corporation

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

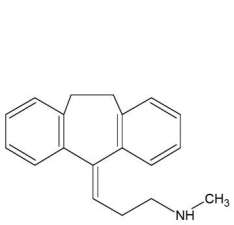
Abstract

This application brief demonstrates analysis of tricyclic antidepressants.

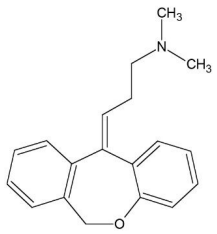
Introduction

The compounds used in this study are -

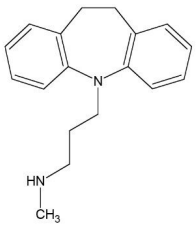
Compounds	USP tailing
1. Desimpramine	1.20
2. Nortriptyline	1.18
3. Doxepin	1.17
4. Imipramine	1.17
5. Amitriptyline	1.14



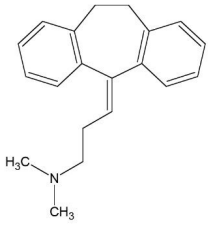
Nortriptyline



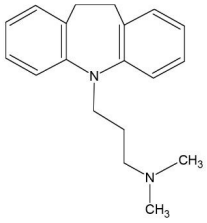
Doxepin



Desipramine



Amitriptyline



Imipramine

Experimental

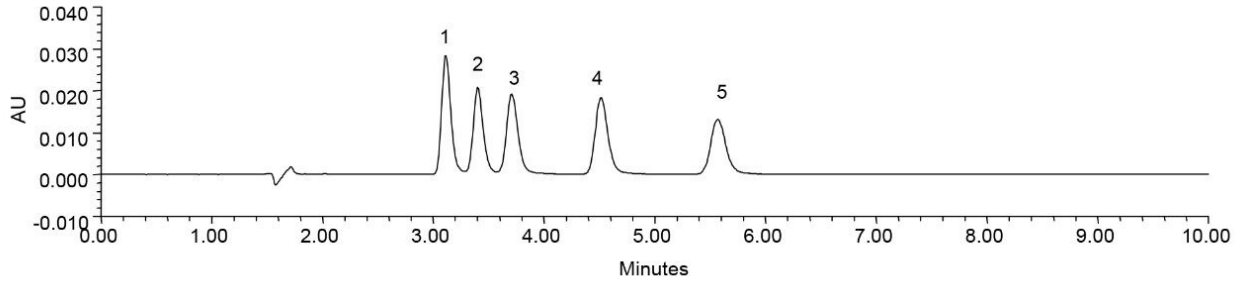
Conditions

Column:	SunFire C_{18} 4.6 x 150 mm, 5 µm
Part number:	186002559
Mobile phase A:	Water
Mobile phase B:	MeOH
Mobile phase C:	100 mM $CH_3COO^-NH_4^+$, pH 6.0
Flow rate:	1 mL/min
Isocratic mobile phase conditions:	18% A, 72% B, 10% C

Injection volume:	10 µL
Sample concentration:	10 µg/mL in water
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

Results and Discussion

Excellent peak shape on basic tricyclic antidepressants with SunFire C_{18} analytical Column.



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