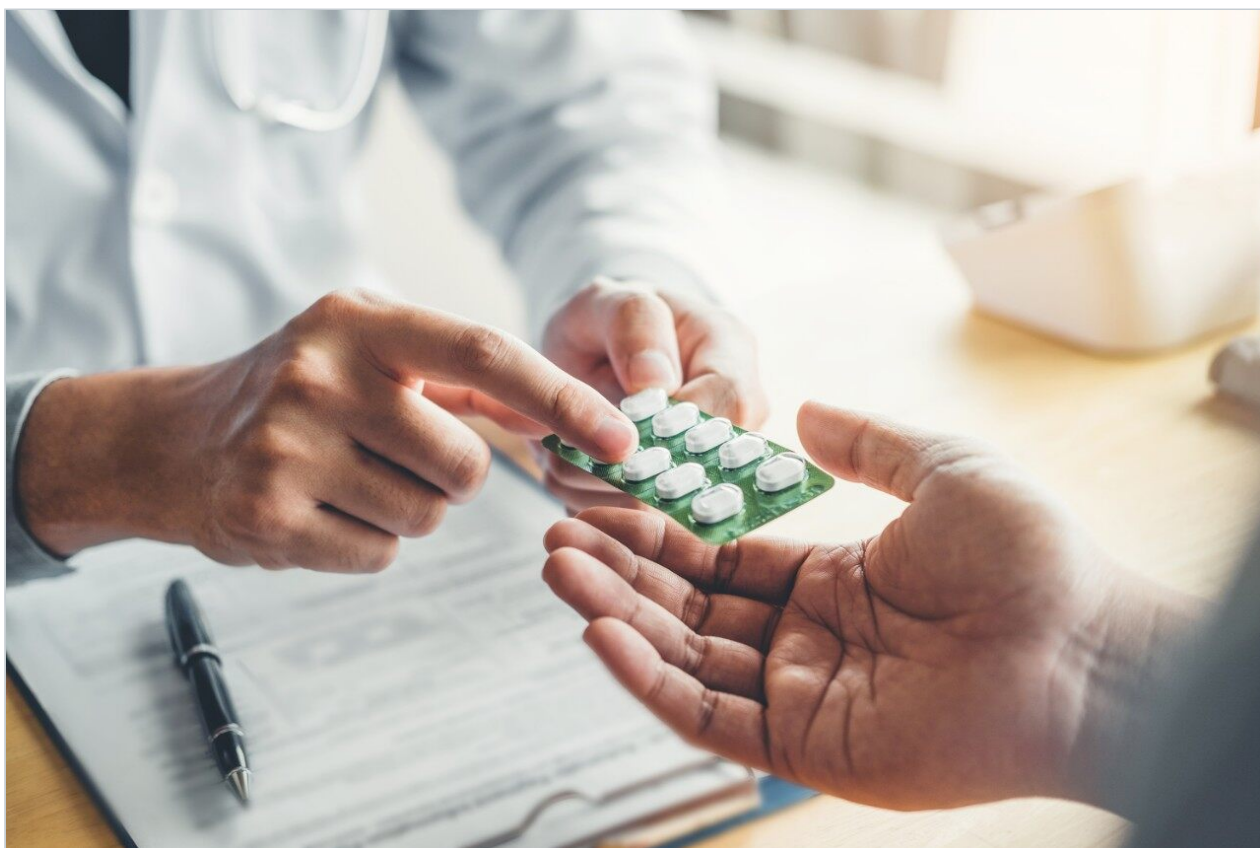


## Tricyclic Antidepressants

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Waters Corporation



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

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### Abstract

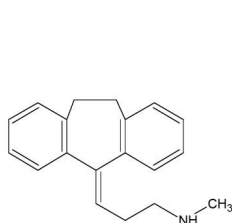
This application brief demonstrates analysis of tricyclic antidepressants.

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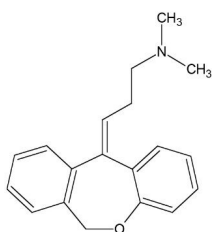
## Introduction

The compounds used in this study are -

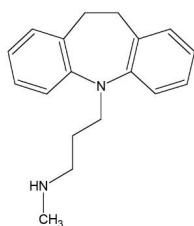
Compounds	USP tailing
1. Desimpramine	1.20
2. Nortriptyline	1.18
3. Doxepin	1.17
4. Imipramine	1.17
5. Amitriptyline	1.14



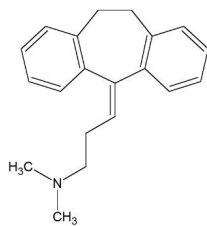
**Nortriptyline**



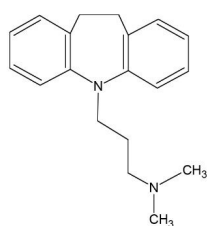
**Doxepin**



**Desipramine**



**Amitriptyline**



**Imipramine**

## Experimental

### Conditions

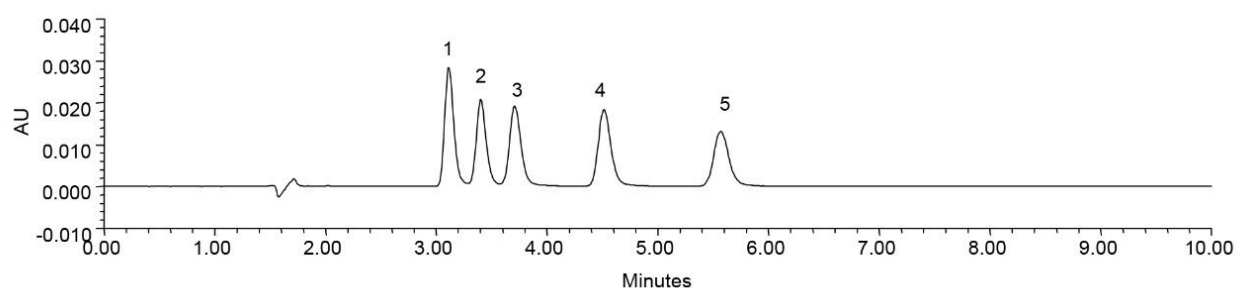
Column:	SunFire C <sub>18</sub> 4.6 x 150 mm, 5 μm
Part number:	186002559
Mobile phase A:	Water
Mobile phase B:	MeOH
Mobile phase C:	100 mM CH <sub>3</sub> COO <sup>-</sup> NH <sub>4</sub> <sup>+</sup> , pH 6.0
Flow rate:	1 mL/min
Isocratic mobile phase conditions:	18% A, 72% B, 10% C

Injection volume:	10 $\mu$ L
Sample concentration:	10 $\mu$ g/mL in water
Temperature:	30 $^{\circ}$ C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

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## Results and Discussion

Excellent peak shape on basic tricyclic antidepressants with SunFire C<sub>18</sub> analytical Column.



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## Featured Products

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

WA41907, May 2005

