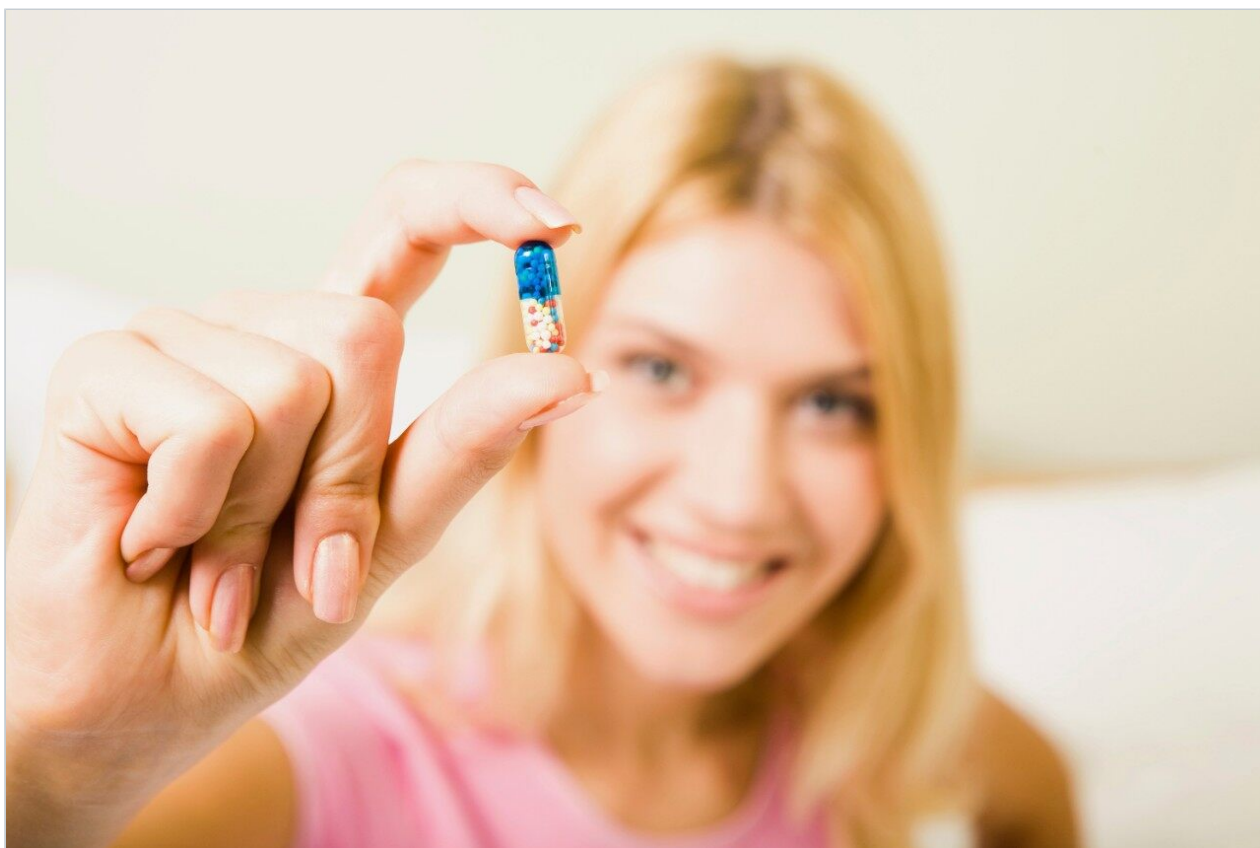


Antidepressants in TFA

Waters Corporation



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

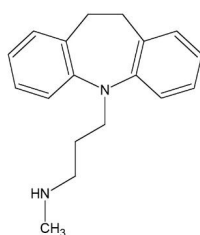
Abstract

This application brief demonstrates analysis of antidepressants in TFA.

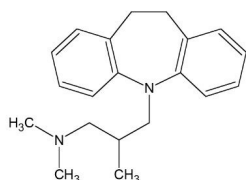
Introduction

The compounds used in this study are -

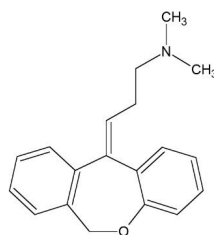
1. Doxepin
2. Desipramine
3. Trimipramine



Desipramine



Trimipramine



Doxepin

Experimental

SunFire Column mass loading comparison for basic compounds (tricyclic antidepressants) in TFA.

Comparison made with other leading HPLC column brands using 3,000 µg total load.

Conditions

Column:	SunFire C ₁₈ 4.6 x 150 mm, 5 µm
Part number:	186002559
Mobile phase A:	0.1% TFA in Water
Mobile phase B:	0.1% TFA in ACN

Flow rate: 1.4 mL/min

Injection volume: 10 µL

Sample concentration: 100 mg/mL each, in DMSO

Temperature: Ambient

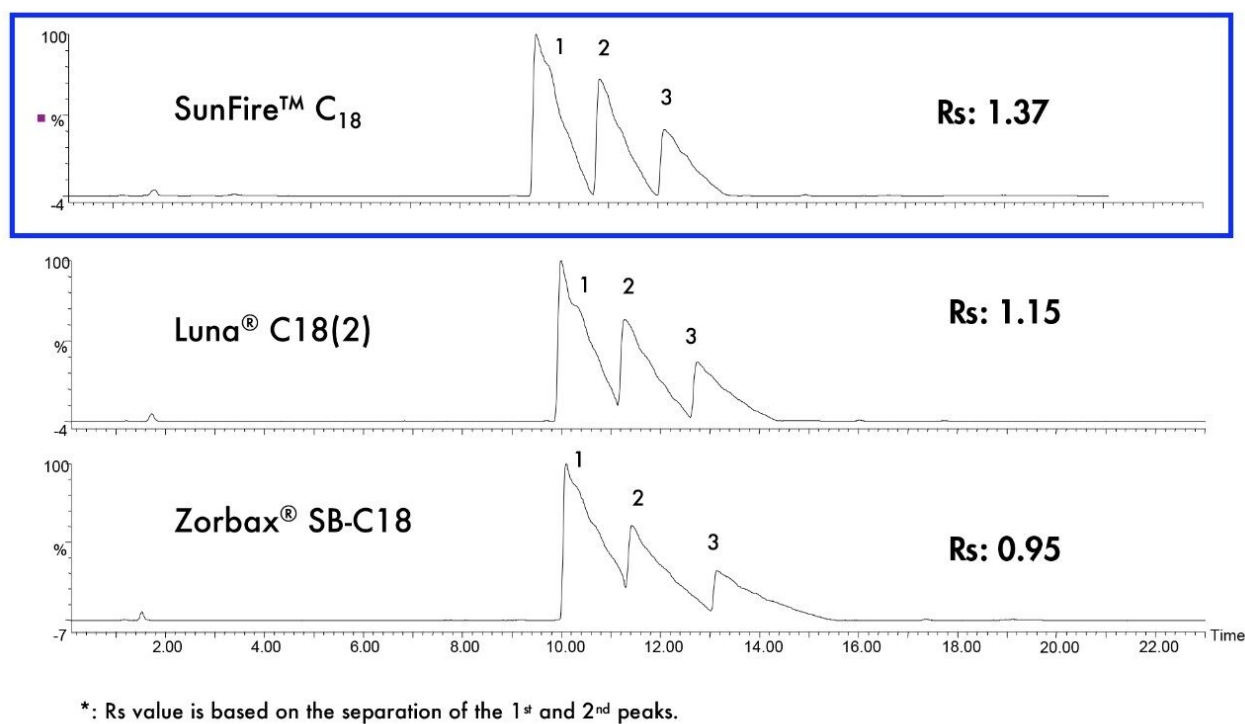
Detection: UV @ 254 nm

Instrument: AutoPurification System

Gradient

Time (min)	Profile	
	%A	%B
0.0	80	20
2.0	80	20
15.0	50	50

Results and Discussion



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AutoPurification System <<https://www.waters.com/10007147>>

WA41905, May 2005