

Application Note

Tricyclic Antidepressants in Formic Acid: 420 µg Total Load

Waters Corporation



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

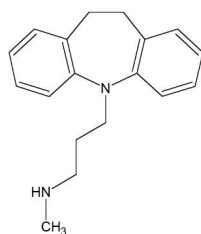
Abstract

This application brief demonstrates analysis tricyclic antidepressants in formic acid.

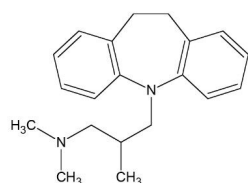
Introduction

The compounds used in this study are -

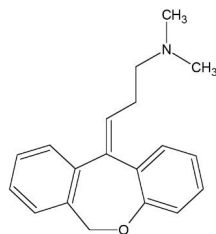
1. Doxepin
2. Desipramine
3. Trimipramine



Desipramine



Trimipramine



Doxepin

Experimental

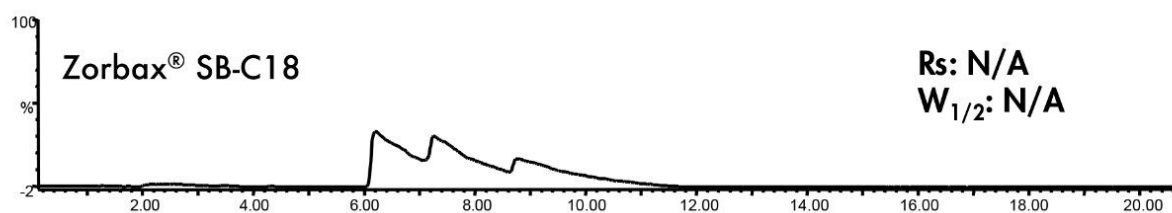
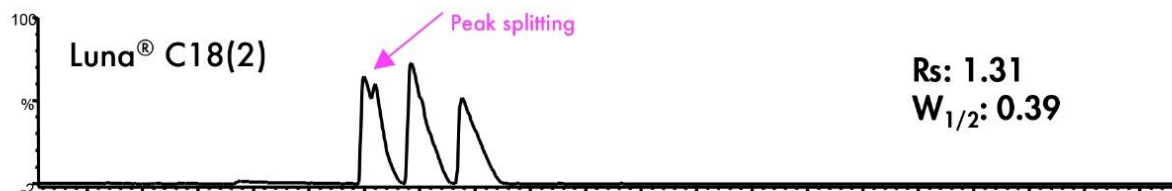
Column:	SunFire C ₁₈ 4.6 x 150 mm, 5 µm
Part number:	186002559
Mobile phase A:	0.1% HCOOH in Water
Mobile phase B:	0.1% HCOOH in ACN
Flow rate:	1.4 mL/min

Injection volume:	10 μ L
Sample concentration:	14 mg/mL each, in DMSO
Temperature:	Ambient
Detection:	UV @ 254 nm
Instrument:	AutoPurification System

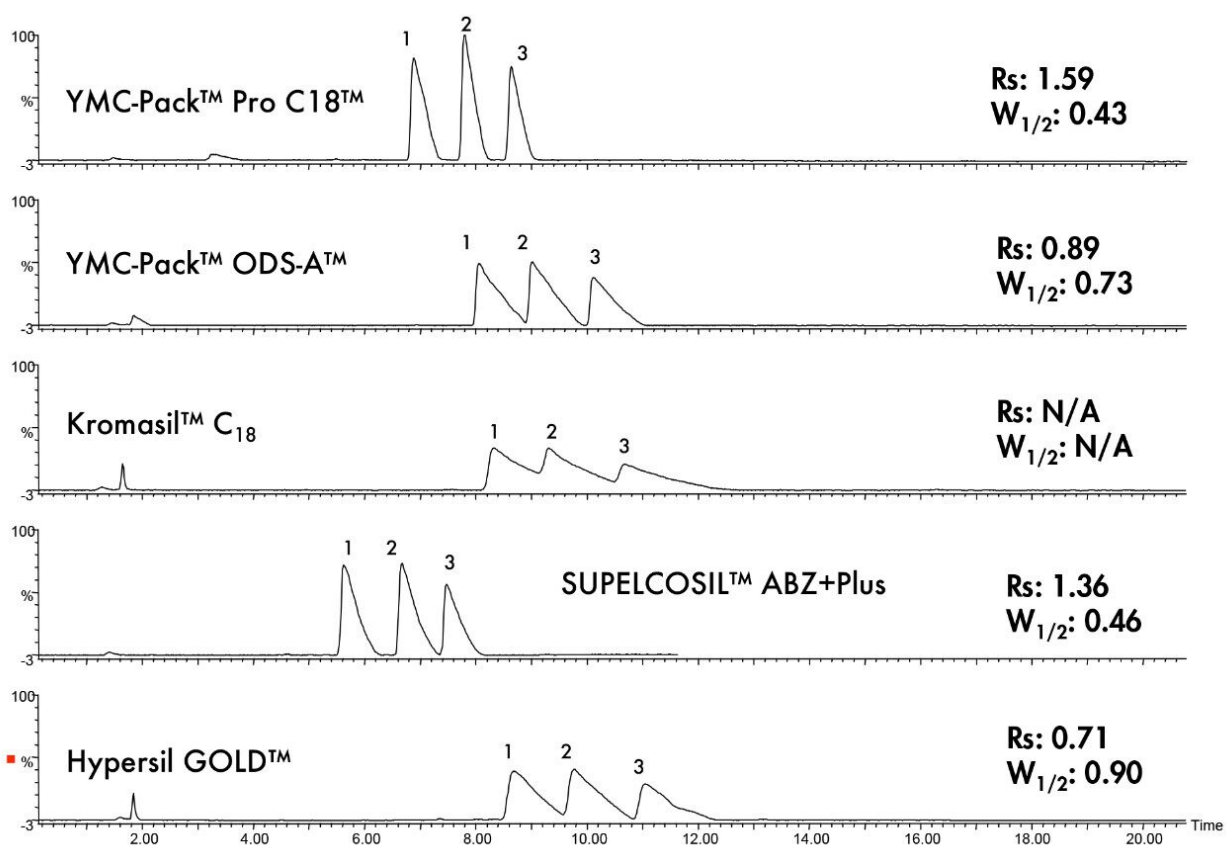
Gradient

Time (min)	Profile	
	%A	%B
0.0	80	20
2.0	80	20
10.0	80	50

Results and Discussion



*: Rs value is calculated based on the separation of the 1st and 2nd peaks.
W_{1/2} value is calculated based on the half width of the 3rd peak.



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W_{1/2} value is calculated based on the half width of the 3rd peak.

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

WA41903, May 2005

