## Waters™



## Tricyclic Antidepressants Using LC-MS

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 LC-MS.

## Introduction

The compounds used in this study are -	
1. Trimipramine	
2. Triprolidine	
3. Doxepin	
4. Desipramine	
5. Amitriptyline	
Experimental	
HPLC Conditions	
Column:	SunFire C <sub>8</sub> 2.1 x 20 mm <i>IS</i> , 3.5 μm
Part number:	186002697
Mobile phase A:	Water with 0.1% HCOOH
Mobile phase B:	Acetonitrile with 0.1% HCOOH
Flow rate:	0.63 mL/min
Injection volume:	2 μL
Sample concentration:	20 μg/mL in water
Temperature:	30 °C

Detection:	Waters Micromass ZQ			
Instrument:	Alliance 2796 with 2487 Dual Wavelength Detector			
MS Conditions				
ESI+ capillary (kV):	3			
Cone voltage (V):	30			
Extractor (V):	3			
RF lens (V):	0.3			
Source temp. (°C):	150			
Desolvation temp. (°C):	350			
Cone gas flow (L/hr):	50			
Desolvation flow (L/hr):	550			
Results and Discussion				
Featured Products				
· Alliance HPLC System <a href="https://www.waters.com/534293">https://www.waters.com/534293&gt;</a>				

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