

## Antidepressants in Plasma

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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 details on the analysis of antidepressants in plasma using Symmetry Columns.

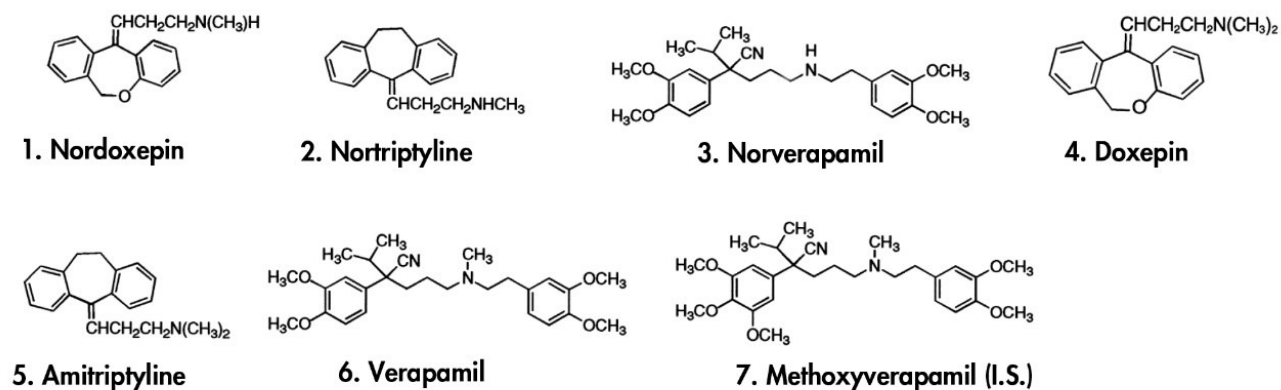
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### Introduction

The compounds analyzed in this study are:

1. Nordoxepin
  2. Nortriptyline
  3. Norverapamil
  4. Doxepin
  5. Amitriptyline
  6. Verapamil
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## 7. Methoxyverapamil (I.S.)



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## Experimental

### HPLC Method

Column:	Symmetry Shield RP <sub>8</sub> , 3.9 x 150 mm, 5 µm
Part number:	WAT200655
Mobile phase:	100 mM phosphate pH 7.0/acetonitrile/methanol 55:35:10
Flow rate:	1.0 mL/min
Injection volume:	100 µL acidified plasma sample solution
Temperature:	30 °C
Detection:	UV @ 230 nm

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# Oasis® HLB Extraction Method

Oasis® HLB 1 cc/30 mg Extraction Cartridge  
Part Number WAT094225

## Condition:

1 mL methanol/1 mL water

## Load:

1 mL of acidified plasma  
sample solution

## Wash:

1 mL of 70% methanol,  
2% ammonium hydroxide

## Elute:

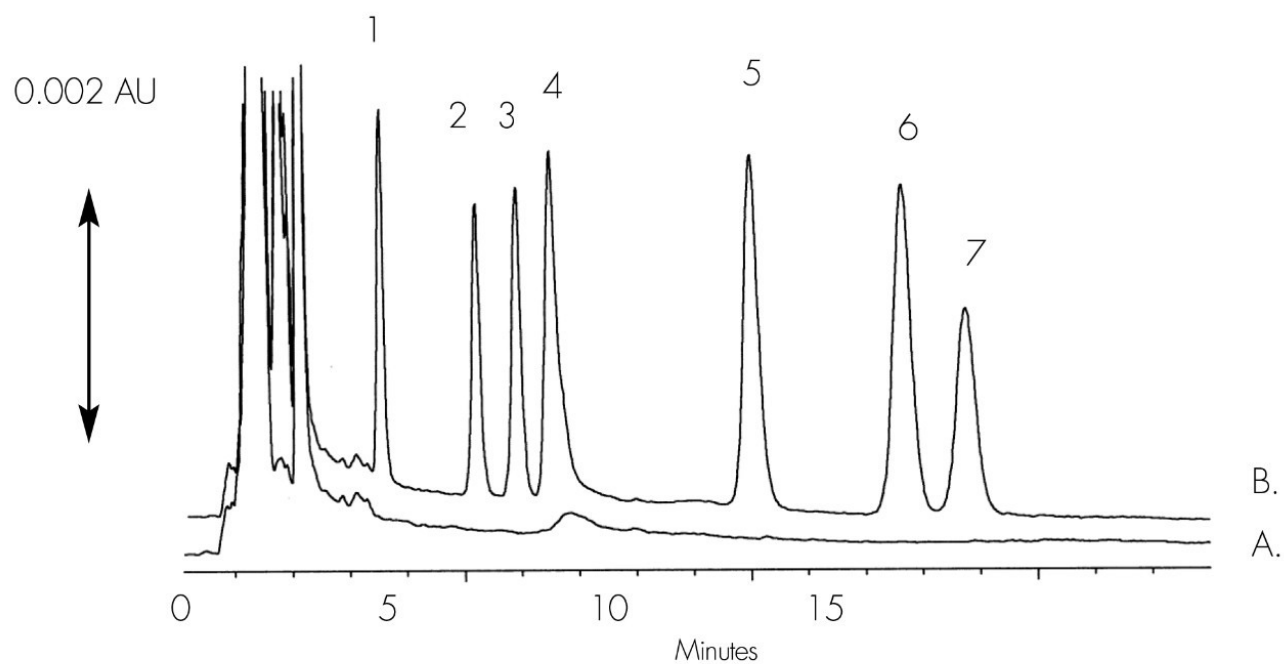
0.5 mL of 70% methanol,  
2% acetic acid

## Evaporate and Reconstitute:

Not required

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## Results and Discussion



*Chromatogram of Plasma Extracts: A) Blank B) Spiked Sample.*

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