

Antidepressants in Plasma

Waters Corporation

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

Abstract

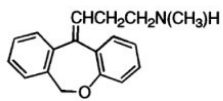
This application brief details on the analysis of antidepressants in plasma using Symmetry Columns.

Introduction

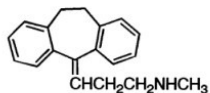
The compounds analyzed in this study are:

1. Nordoxepin
 2. Nortriptyline
 3. Norverapamil
 4. Doxepin
 5. Amitriptyline
 6. Verapamil
-

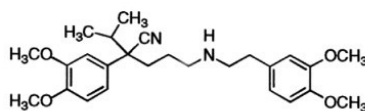
7. Methoxyverapamil (I.S.)



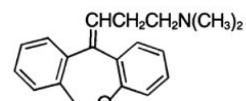
1. Nordoxepin



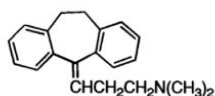
2. Nortriptyline



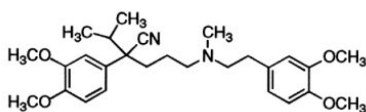
3. Norverapamil



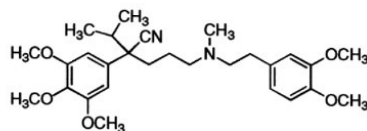
4. Doxepin



5. Amitriptyline



6. Verapamil



7. Methoxyverapamil (I.S.)

Experimental

HPLC Method

Column:	Symmetry Shield RP ₈ , 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

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

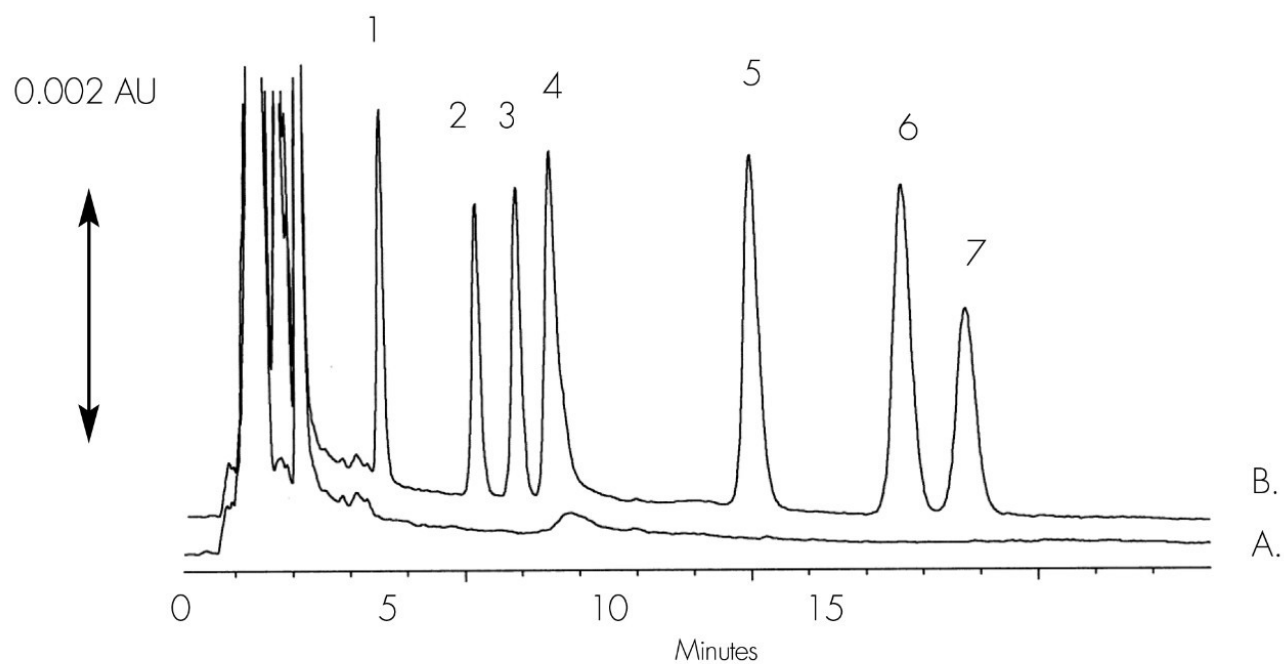
Elute:

0.5 mL of 70% methanol,
2% acetic acid

Evaporate and Reconstitute:

Not required

Results and Discussion



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

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