Waters™

アプリケーションノート

Antidepressants in Plasma

Waters Corporation

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

Abstract

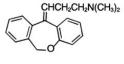
This application brief details on the analysis of antidepressants in plasma using Symmetry Columns.

Introduction

The compounds analyzed in this study are:

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

Antidepressants in Plasma



1. Nordoxepin

2. Nortriptyline

3. Norverapamil

4. Doxepin

5. Amitriptyline

6. Verapamil

7. Methoxyverapamil (I.S.)

Experimental

HPLC Method

Column: Symmetry Shield RP8, 3.9×150 mm, $5 \mu m$

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

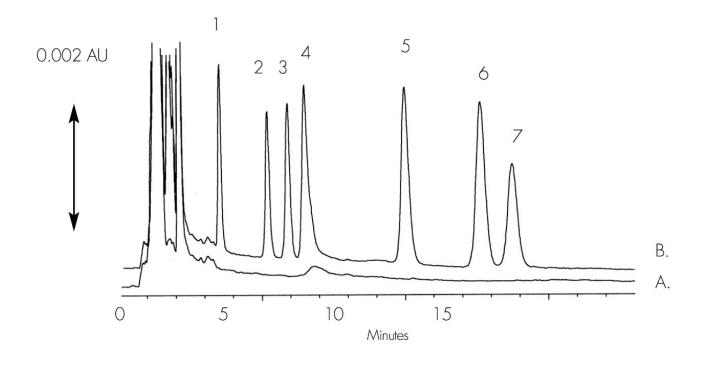
Oasis® HLB Extraction Method

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

Antidepressants in Plasma 3

Results and Discussion



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

Featured Products

WA31763.29, June 2003

© 2022 Waters Corporation. All Rights Reserved.

Antidepressants in Plasma 5