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アプリケーションノート

Naltrexone in Plasma

Waters Corporation



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

Abstract

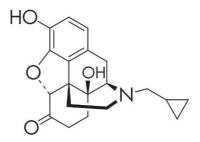
This application brief demonstrates analysis of naltrexone in plasma.

Introduction

The compounds analyzed in this study are -

- 1. Naloxone (I.S.)
- 2. Naltrexone

1. Naloxone (I.S.)



2. Naltrexone

Experimental

HPLC Method

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

Part number: WAT200655

Mobile phase: 100 mM Ammonium acetate pH 5/acetonitrile

88:12

Flow rate: 1.0 mL/min

Injection volume: 1 mL spiked plasma with naloxone (I.S.)

Temperature: 8 °C

Detection: UV @ 281 nm

Oasis® HLB Extraction Method

Oasis® HLB Extraction Plate, 30 mg/96-well Part Number WAT058951

Condition

1 mL methanol/1 mL water

Load

1 mL spiked plasma with naloxone (I.S.)

Wash

- 1) 1 mL 5% methanol containing2% ammonium hydroxide
- 2) 1 mL 20% methanol containing2% ammonium hydroxide

Elute

0.5 mL of 25% methanol containing 2% acetic acid

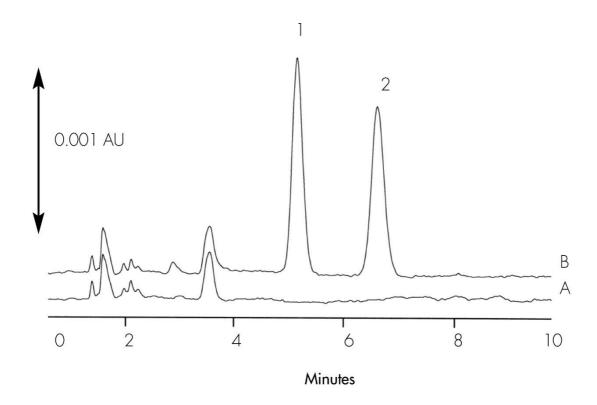
Evaporate and Reconstitute

Not required

Results and Discussion

Compound	Concentration µg/mL	% Recovery	%RSD (n=6)
Naltrexone	3.3	108%	4.2%

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



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WA31763.107, June 2003

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