

Oxycodone in Serum

Waters Corporation



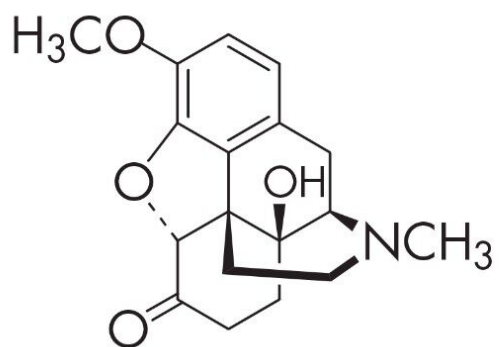
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

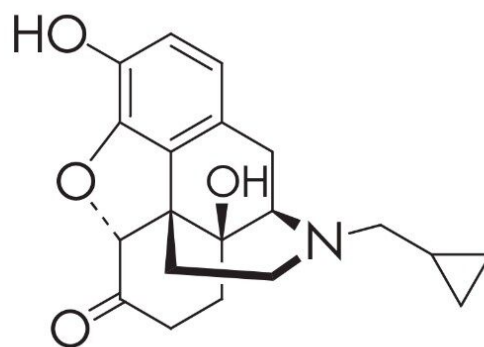
This application brief highlights the analysis of oxycodone in serum using SymmetryShield RP₈.

Introduction

Compounds used in this application brief are Oxycodone and Naltrexone (I.S.).



1. Oxycodone



2. Naltrexone (I.S.)

Experimental

HPLC Method

Column:	SymmetryShield RP ₈ , 3 x 150 mm, 5 µm (p/n: WAT094243)
Guard column:	Sentry RP ₈ , guard column, 3.9 x 20 mm, 5 µm (p/n: WAT200675)
Mobile phase:	20 mM ammonium acetate, pH 5/acetonitrile, 90:10
Flow rate:	0.6 mL/min

Injection volume:	20 μ L of reconstituted porcine serum extract
Temperature:	25° C
Detection:	UV @240 nm

Oasis® HLB Extraction Method

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

Condition:

1 mL methanol/1 mL water

Load:

1 mL spiked porcine serum with
0.2 µg naloxone (I.S.)

Wash:

1 mL 5% methanol in water

Elute:

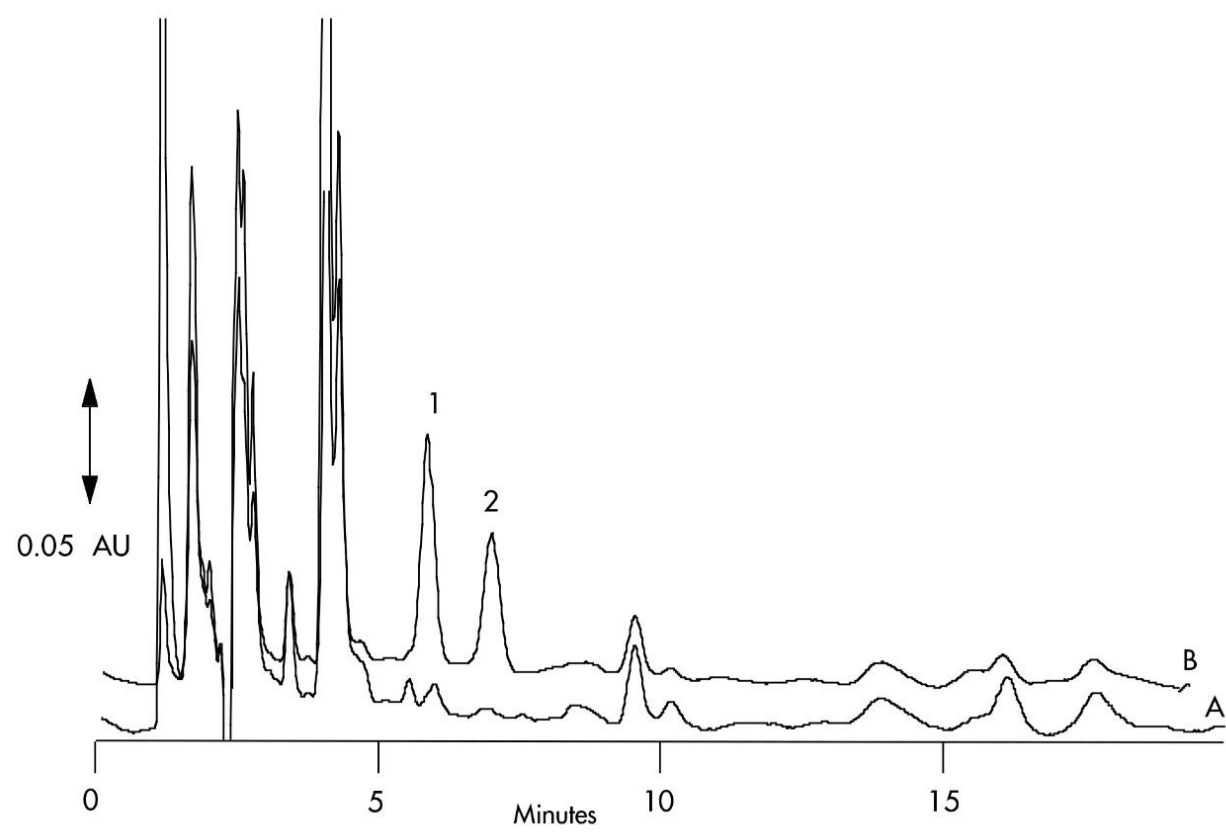
1 mL methanol

Evaporate and Reconstitute:

40° C under nitrogen stream,
200 µL mobile phase

Compound	Concentration μg/mL	% Recovery	%RSD (n=6)
Oxycodone	0.200	96.0%	6.4%
	1.00	97.9%	1.0%

Results and Discussion



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