

## Oxycodone in Serum

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Waters Corporation



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

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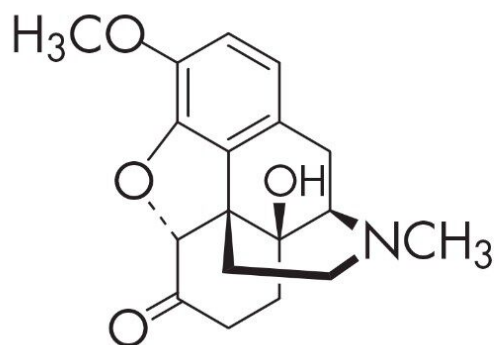
### Abstract

This application brief highlights the analysis of oxycodone in serum using SymmetryShield RP<sub>8</sub>.

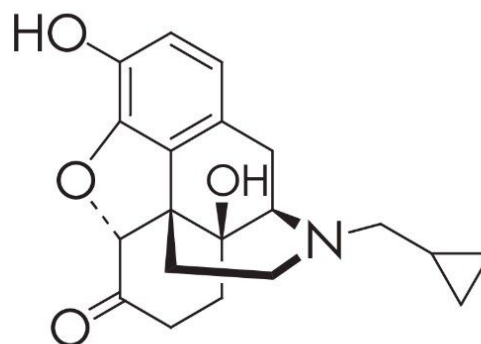
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## Introduction

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



**1. Oxycodone**



**2. Naltrexone (I.S.)**

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## Experimental

### HPLC Method

Column:	SymmetryShield RP <sub>8</sub> , 3 x 150 mm, 5 µm (p/n: WAT094243)
Guard column:	Sentry RP <sub>8</sub> , 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 µL 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:**

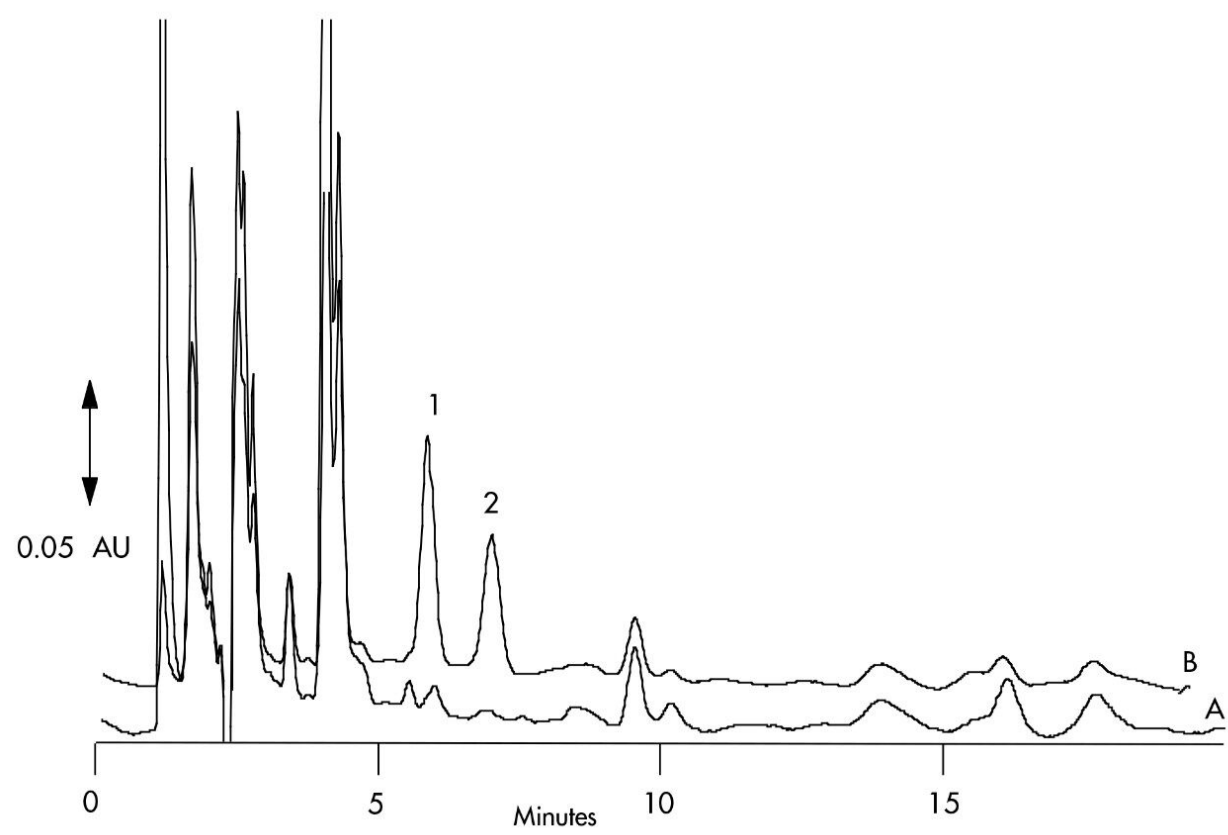
1 mL methanol

**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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