# Waters™

Nota de aplicación

## Cocaine and its Metabolites in Serum

Waters Corporation



For forensic toxicology use only.

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

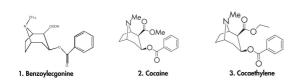
### **Abstract**

This application brief highlights the analysis of cocaine and its metabolites in serum using Symmetry  $C_{18}$ 

### Introduction

Compounds analyzed in this application brief are:

- 1. Benzoylecgonine
- 2. Cocaine
- 3. Cocaethylene



### Experimental

#### **HPLC** Method

Column: Symmetry  $C_{18}$ , 3.9 x 150 mm, 5  $\mu$ m (p/n:

WAT046970)

Guard column: Sentry guard column, 3.9 x 20 mm, 5  $\mu$ m (p/n:

WAT054250)

Mobile phase A: 20 mM potassium phosphate, pH 7

Mobile phase B: Methanol

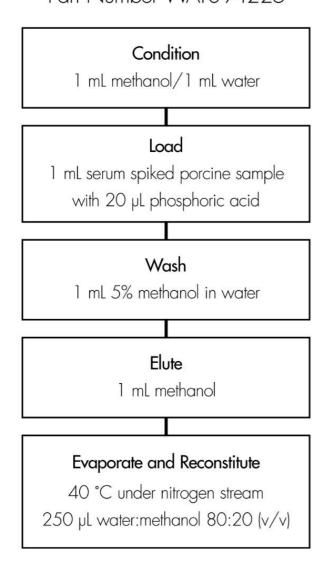
Flow rate: 1.0 mL/min

Injection volume:

Detection: UV @ 235 nm

### Oasis® HLB Extraction Method

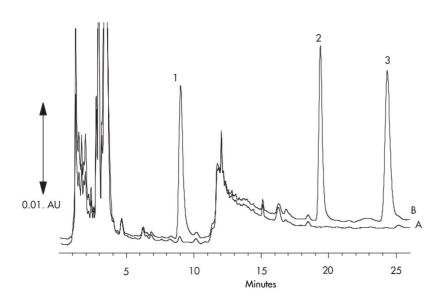
Oasis® HLB 1 cc/30 mg Extraction Cartridge Part Number WAT094225



#### Gradient

Time	Profile		
(min)	%A	%B	
0.0	78	22	
8.5	78	22	
8.6	42	58	
30	42	58	

### Results and Discussion



Compound	Concentration µg/mL	% Recovery	%RSD (n-6)
1. Benzoylecgonine	2.00	93.7%	1.7%
	0.40	93.6%	2.2%
2. Cocaine	2.00	98.0%	1.1%
	0.40	93.4%	2.9%
3. Cocaethylene	2.50	97.7%	2.8%
	0.50	98.2%	5.1%

### Featured Products

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