## Waters™

Application Note

# Codeine and Its Glucuronide Metabolite in Porcine Plasma

Waters Corporation



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

Abstract

This application brief highlights the analysis of codeine and its glucuronide metabolite in porcine plasma using Symmetry  $C_{18}$  columns.

#### Introduction

Compounds used in this application brief are:

- 1. Ranitidine (I.S.)
- 2. Codeine-6-Glucuronide (C-6-G)
- 3. Codeine

#### Experimental

#### **HPLC Method**

Column: Symmetry  $C_{18}$ , 2.1 x 150 mm, 3.5  $\mu$ m (p/n:

186000174)

Guard column: Symmetry  $C_{18}$ , 2.1 x 10 mm, 3.5  $\mu$ m (p/n:

186000169)

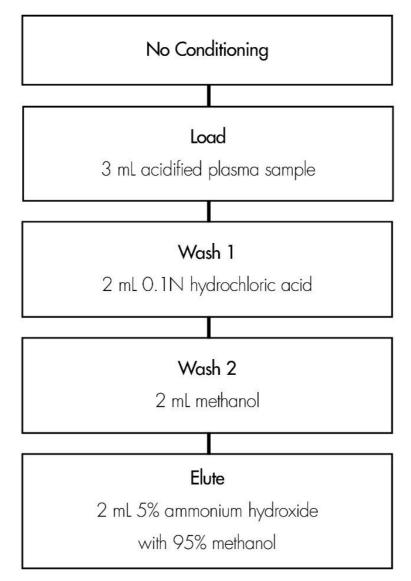
Mobile phase: Methanol/Acetonitrile/0.05% TFA in water

5:5:90

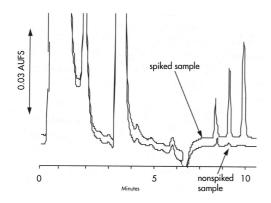
Flow rate:	0.3 mL/min
Injection volume:	80 µL urine extract
Temperature:	30 °C
Detection:	UV @ 220 nm (0.04 AUFS)

### Oasis® MCX Extraction Method

Oasis® MCX Extraction Cartridge, 3 cc/60 mg Part Number 186000254



After elution, the extract is diluted 1:3 with water for HPLC analysis



	Spike level	% Recovery 0.12 μg/mL	%RSD (n=3) 0.6 μg/mL
	Codeine	95.4 (5.0)	103.4 (0.9)
	Codeine-6-Glucuronide	106.8 (1.9)	04.6 (1.3)

#### Featured Products

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