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アプリケーションノート

Codeine and Its Glucuronide Metabolite in Porcine Plasma

Waters Corporation



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

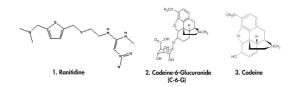
Abstract

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} , 2.1×150 mm, $3.5 \mu m$ (p/n:

186000174)

Guard column: Symmetry $C_{18}, 2.1 \times 10$ 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

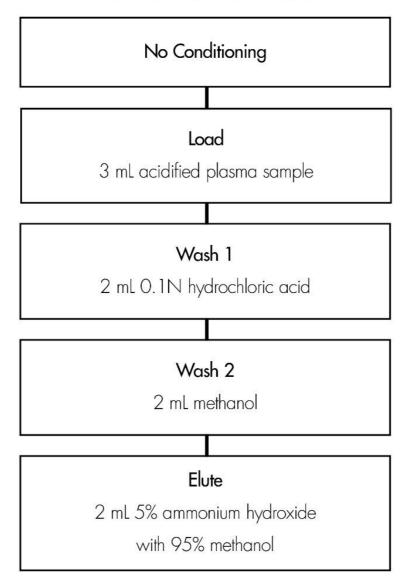
Injection volume: 80 µL urine extract

Temperature: 30 °C

Detection: UV @ 220 nm (0.04 AUFS)

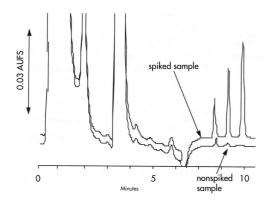
Oasis® MCX Extraction Method

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



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

Results and Discussion



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)

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