Waters™

Applikationsbericht

Morphine and Its Glucuronide Metabolites 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 morphine and its glucuronide metabolites using Oasis HLB extraction method.

Introduction

Compounds studied in this application brief are:

- 1. Morphine-D3-glucuronide
- 2. Morphine-D6-glucuronide
- 3. Morphine

Experimental

HPLC Method

Column: SymmetryShield RP $_8$, 3.9 x 150 mm, 5 μ m (p/n:

WAT200655)

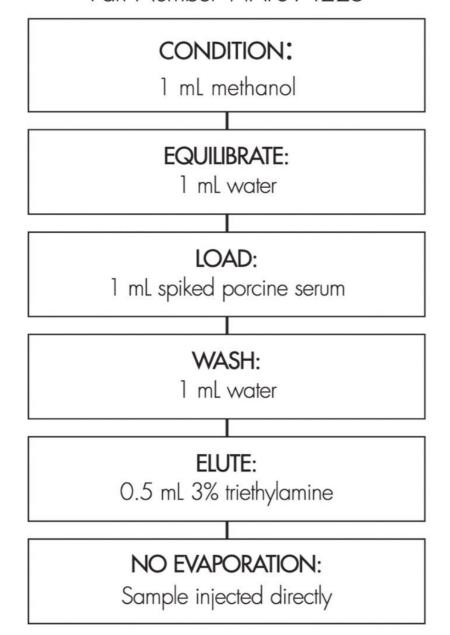
Mobile phase: 20 mM potassium phosphate, pH 6.4

Flow rate: 1.0 mL/min

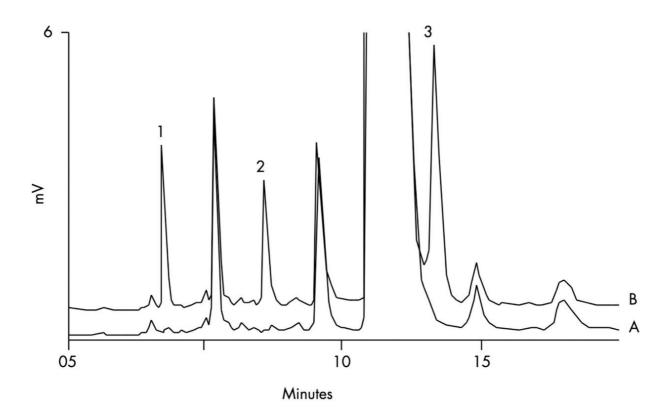
Fluorescence; ex 280 nm, em 355 nm

OASIS® HLB EXTRACTION METHOD

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



Results and Discussion



Compound	Concentration µg/mL	% Recovery	%RSD (n=6)
Morphine-D3-glucuronide	0.48	90.7	2.0
	0.097	100	3.1
Morphine-D6-glucuronide	2.4	92.2	2.8
	0.49	93.1	2.5
Morphine	3.6	102	3.6
	0.73	102	3.2

Featured Products

WA31764.100, June 2003

© 2021 Waters Corporation. All Rights Reserved.