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Applikationsbericht

Methadone and Metabolites in Human Urine

Waters Corporation



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

Abstract

This application brief highlights the analysis of methadone and metabiltes in human urine using Oasis MAX extraction method.

Introduction

Compounds studied in this application brief are:

- 1. EDDP (0.2 µg/mL)
- 2. Estazolam (I.S.) (0.2 μ g/mL)
- 3. Methadone (0.2 μ g/mL)

Experimental

HPLC Method

Column: Symmetry C_8 , 3.9 x 150 mm, 5 μ m (p/n:

WAT046970)

Guard Column: Sentry Guard Column 3.9 x 20 mm, 5 µm (p/n:

WAT054250)

Mobile phase: 0.1% TFA in water/Methanol 60:40

Flow rate: 1.0 mL/min

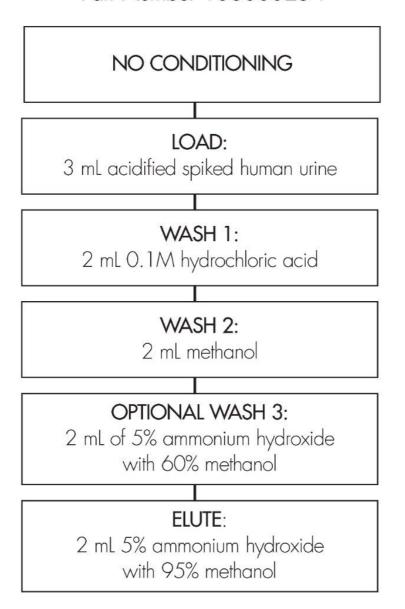
| Injection volume: | 100 µL urine extract | |
|-------------------|----------------------|--|
| Temperature: | 30 °C | |

UV @ 210 nm

Detection:

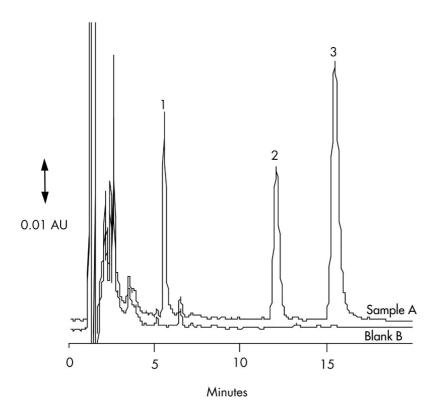
OASIS® MCX EXTRACTION METHOD

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



Each elution diluted 1:1 with water for HPLC analysis

Results and Discussion



| Compound | % Recovery | %RSD (n=6) |
|-----------------------|------------|---------------|
| Methadone (0.5 μg/mL) | 95.2 (1.0) | 97.4 (3.0) |
| Methadone (0.1 µg/mL) | 98.0 (4.8) | 114.7 (8.2) |
| EDDP (0.2 µg/mL) | 93.3 (1.0) | 92.9 (2.4) |
| EDDP (0.4 µg/mL) | 98.4 (2.9) | 100.5 (5.8) |
| Estazolam (IS) | 94.4 (3.3) | 91.2 (91.2) |

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