# Waters™

Note d'application

# Propranolol 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 propranolol in human urine using SymmetryShield columns.

#### Introduction

Compounds used in this study are:

- 1. Metoprolol
- 2. Oxprenolol (I.S.)
- 3. Propranolol

### Experimental

#### **HPLC Method**

Column: SymmetryShield RP<sub>18</sub>, 3.9 x 150 mm, 5  $\mu$ m (p/n:

186000108)

Guard Column: Sentry guard column RP $_{18}$  3.9 x 20 mm, 5  $\mu$ m

(p/n: 186000107)

Mobile phase: 0.1% TFA in water/Acetonitrile 80:20

Flow rate: 1.0 mL/min

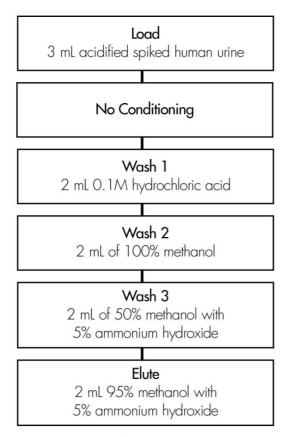
Injection volume: 50  $\mu$ L

Temperature: 30° C

Detection: UV @ 275 nm

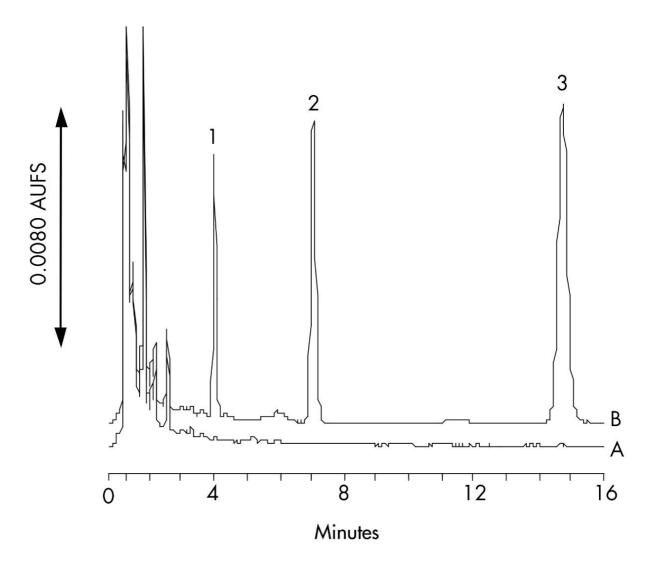
### Oasis® MCX Extraction Method

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



Neutralize each elution with 100  $\mu$ L of acetic acid. Evaporate une N<sub>2</sub> at 40 °C and reconstitute with 300  $\mu$ L of water

Results and Discussion



Compound	% Recovery 0.08 μg/mL	(%RSD) 0.4 μg/mL
Propranolol (n=3)	105.8 (2.7)	98.5 (0.7)
Metoprolol (n=3)	101.0 (3.4)	99.6 (0.4)
Propranolol Interday (n=6)		99.0 (0.9)
Propranolol Interperson (n=9)		100.4 (6.4)
Metoprolol (n=6)		100.3 (0.9)
Metoprolol (n=9)		97.3 (2.6)
Oxprenolol (I.S.)		91.1 (3.2)

## Featured Products

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