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Applikationsbericht

Propranolol 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 propranolol in serum using SymmetryShield Columns.

Introduction

The compounds analyzed in this study are:

- 1. Propranolol
- 2. Butyl paraben (I.S.)

1. Propranolol

2. Butyl paraben (I.S.)

Experimental

HPLC Method

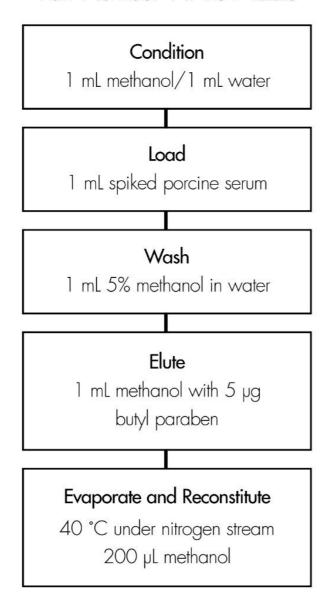
Column: Symmetry Shield RP8, 3.9 x 150 mm, 5 μ m

Guard column: Symmetry guard column, 3.9 x 20 mm, 5 μ m

| Part numbers: | Column - WAT200655, Guard - WAT200675 | |
|-------------------|--|--|
| Mobile phase: | 20 mM potassium phosphate, pH 7/methanol 38:62 | |
| Flow rate: | 1.0 mL/min | |
| Injection volume: | 20 µL of reconstituted porcine serum extract | |
| Temperature: | 30 °C | |
| Detection: | UV @ 254 nm | |

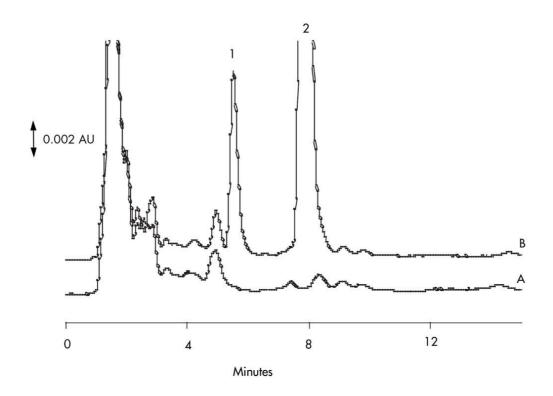
Oasis® HLB Extraction Method

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



| Compound | Concentration µg/mL | % Recovery | %RSD (n=6) |
|-------------|------------------------|------------|---------------|
| Propranolol | 0.800 | 85.9% | 2.1% |
| | 4.00 | 96.4% | 2.4% |

Chromatogram of Serum Extracts: A) Blank B) Spiked Sample



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