

## Propranolol in Serum

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Waters Corporation



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

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### Abstract

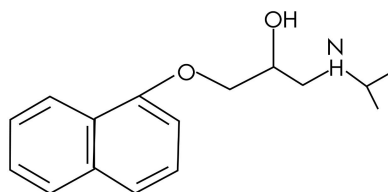
This application brief highlights the analysis of propranolol in serum using SymmetryShield Columns.

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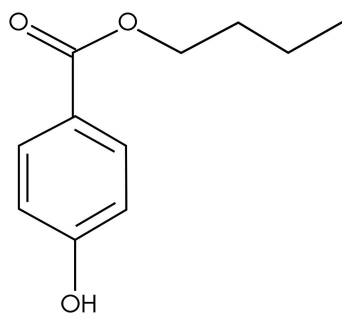
## Introduction

The compounds analyzed in this study are:

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



### 1. Propranolol



### 2. Butyl paraben (I.S.)

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## Experimental

### HPLC Method

|               |                                                      |
|---------------|------------------------------------------------------|
| Column:       | Symmetry Shield RP <sub>8</sub> , 3.9 x 150 mm, 5 µm |
| Guard column: | Symmetry guard column, 3.9 x 20 mm, 5 µm             |

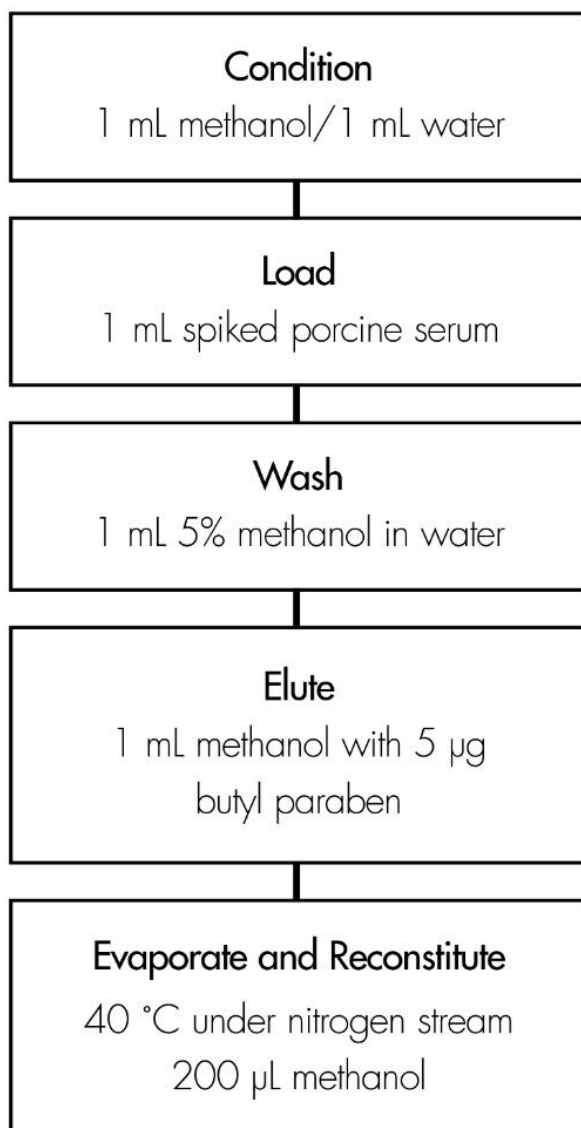
|                   |                                                   |
|-------------------|---------------------------------------------------|
| Part numbers:     | Column - WAT200655, Guard - WAT200675             |
| Mobile phase:     | 20 mM potassium phosphate, pH 7/methanol<br>38:62 |
| Flow 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

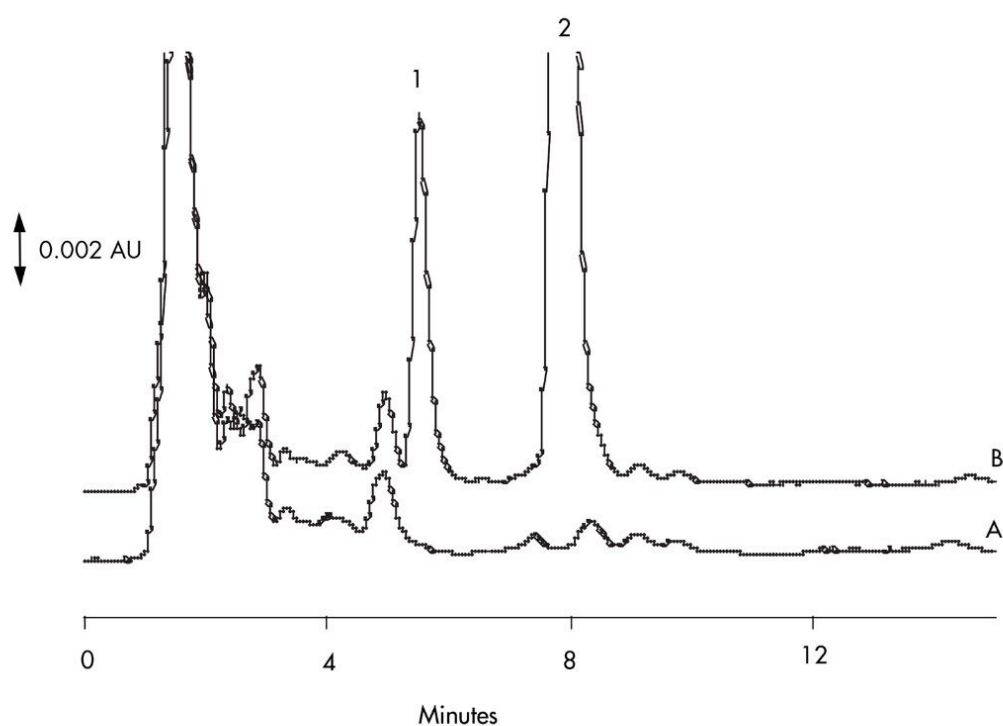


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## Results and Discussion

| Compound    | Concentration<br>µg/mL | % Recovery | %RSD<br>(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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WA31763.135, June 2003

