

Propranolol in Serum

Waters Corporation



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

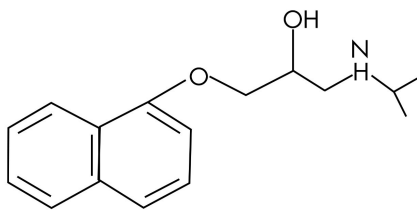
Abstract

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

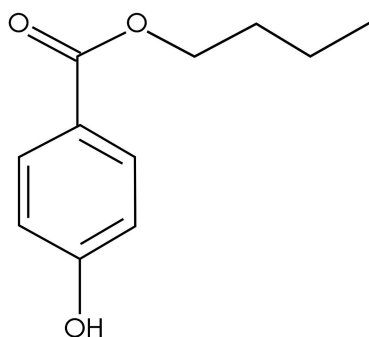
Introduction

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 μm

Guard column:

Symmetry guard column, 3.9 x 20 mm, 5 μm

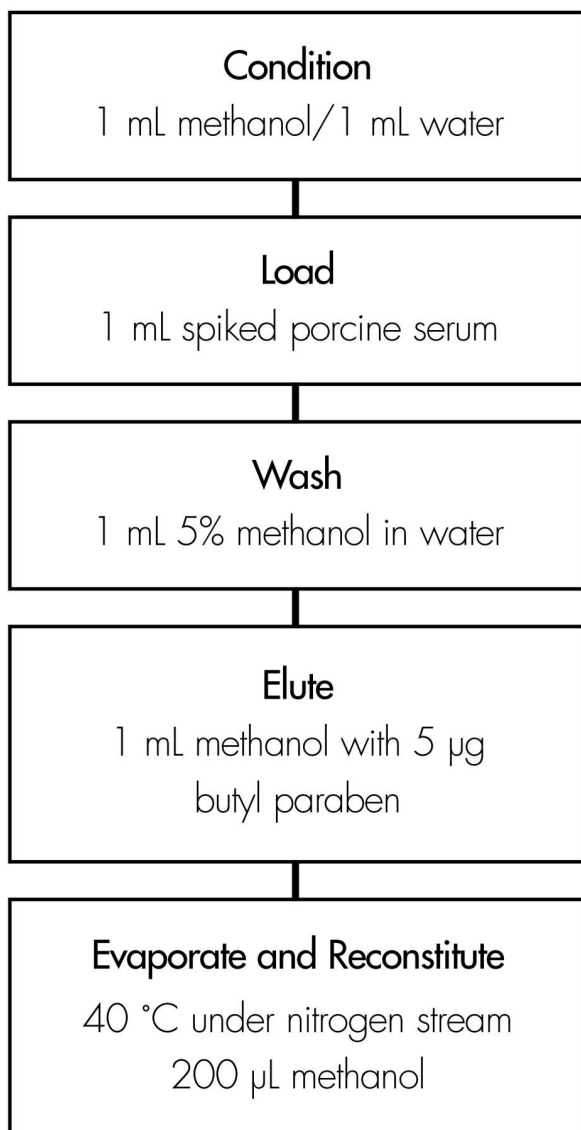
Part numbers:	Column - WAT200655, Guard - WAT200675
Mobile phase:	20 mM potassium phosphate, pH 7/methanol 38:62
Flow rate:	1.0 mL/min
Injection volume:	20 µL of reconstituted porcine serum extract
Temperature:	30 °C
Detection:	UV @ 254 nm

Oasis® HLB Extraction Method

Oasis® HLB 1 cc/30mg Extraction

Cartridge

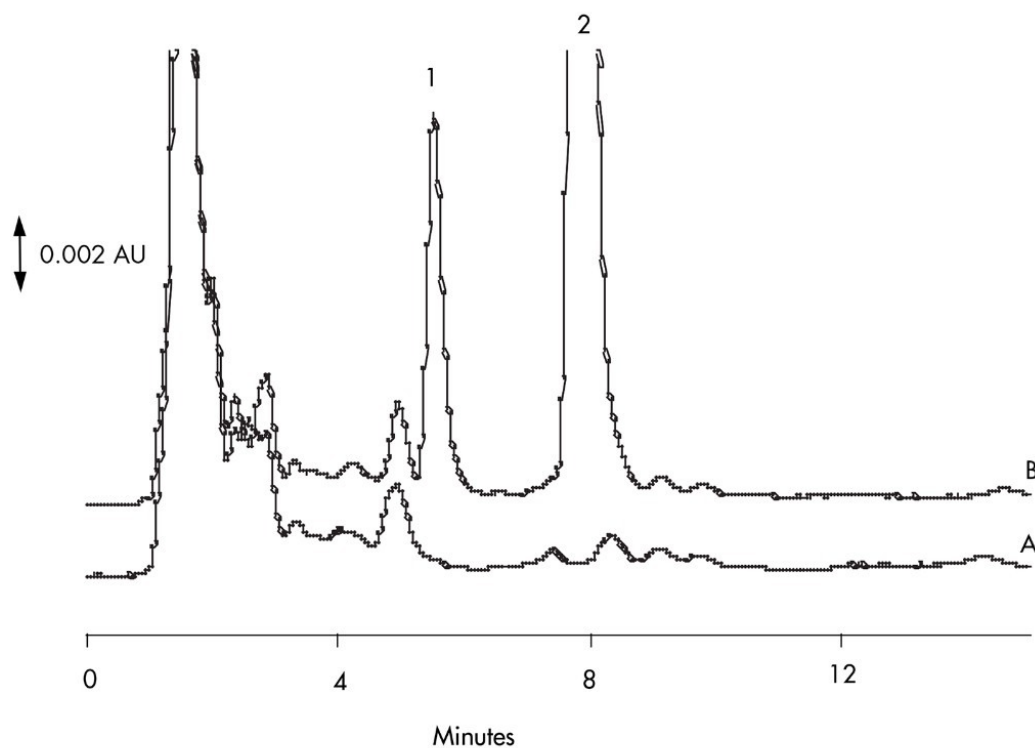
Part Number WAT094225



Results and Discussion

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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