Waters™

응용 자료

Steroids in Serum

Waters Corporation



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

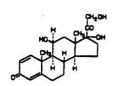
Abstract

This application brief demonstrates analysis of steroids in serum.

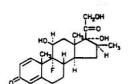
Introduction

The compounds used in this study are -

- 1. Prednisolone
- 2. Betamethasone
- 3. Butyl Paraben (I.S.)
- 4. Betamethasone Valerate



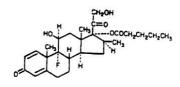
1. Prednisolone



2. Betamethasone



3. Butyl Paraben (I.S.)



4. Betamethasonevalerate

Experimental

HPLC Method

Column: Symmetry Shield RP8, 3.9×150 mm, $5 \mu m$

Guard column: Sentry Guard Column 3.9 x 20 mm, 5µm

Part numbers: Column - WAT200655, Guard - WAT200675

Mobile phase: 20 mM potassium phosphate, pH 7/methanol

41:59

Flow rate: 1.0 mL/min

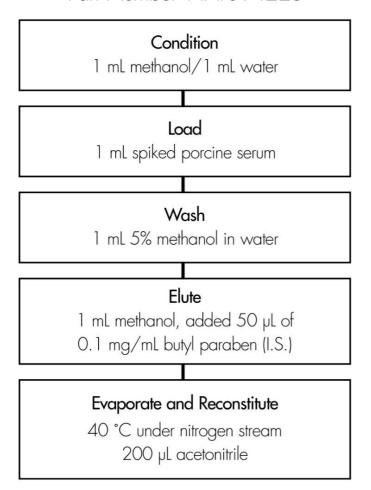
UV @ 254 nm

Injection volume:

Detection:

Oasis® HLB Extraction Method

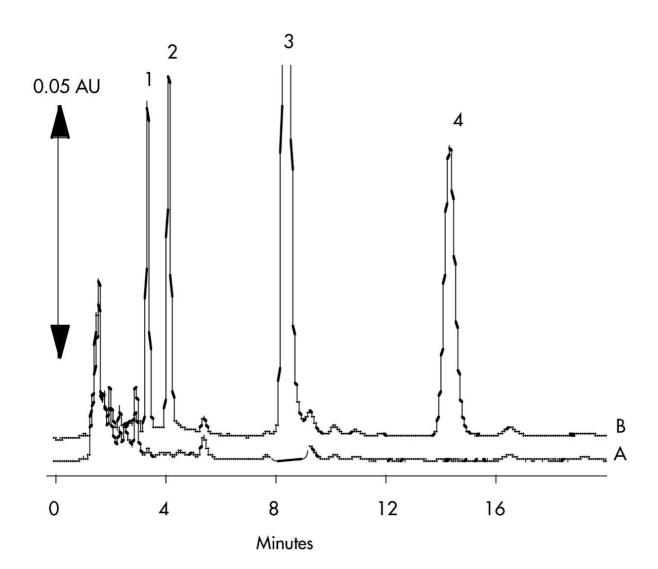
Oasis® HLB 1 cc/30 mg Extraction Cartridge Part Number WAT094225



Results and Discussion

Compound	Concentration µg/mL	% Recovery	%RSD (n=6)
Prednisolone	1.00	93.8%	4.7%
	5.00	92.0%	1.4%
Betamethasone	1.00	85.7%	2.3%
	5.00	91.3%	1.5%
Betamethasone	4.00	95.4	2.2%
Valerate	20.00	9.06	1.3%

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



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