Waters™

アプリケーションノート

Steroids Analysis Using 4.6 x 20 mm Intelligent Speed Separation Columns

Waters Corporation



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

Abstract

This application brief demonstrates analysis of steroids.

Introduction

The compounds used in this study are:

- 1. Prednisone
- 2. Cortisone
- 3. Corticosterone
- 4. Estradiol
- 5. Estrone
- 6. Progesterone

Prednisolone

Cortisone

Corticosterone

Estradiol

Estrone

Progesterone

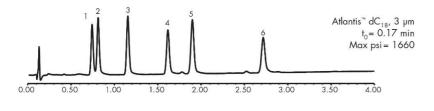
Conditions

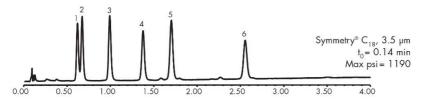
Columns:	Atlantis dC ₁₈ , 4.6 x 20 mm IS 3 μ m, (P/N:186002062)	
	Symmetry C_{18} , 4.6 x 20 mm IS 3.5 μ m, (P/N:186002090)	
	Symmetry Shield RP $_{18},4.6x20$ mm IS $3.5\mu m,$ (P/N:186002092)	
	XTerra MS C_{18} , 4.6 x 20 mm IS 3.5 μ m, (P/N:186001891)	
Mobile phase A:	Water	
Mobile phase B:	Acetonitrile	
Flow rate:	3.0 mL/min	
Injection volume:	10 μL	
Sample concentration:	20 μg/mL	
Temperature:	30 °C	
Detection:	UV @ 220 nm	
Instrument:	Alliance 2795 with 996 PDA	

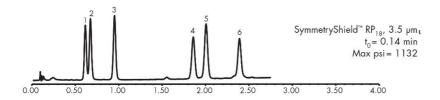
Gradient

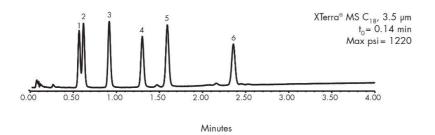
Time	Profile	
(min)	%A	%B
0.0	80	20
4.0	36	65

Results and Discussion









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Alliance HPLC System https://www.waters.com/534293

WA31787.27, June 2003

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