

Steroids

Waters Corporation



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

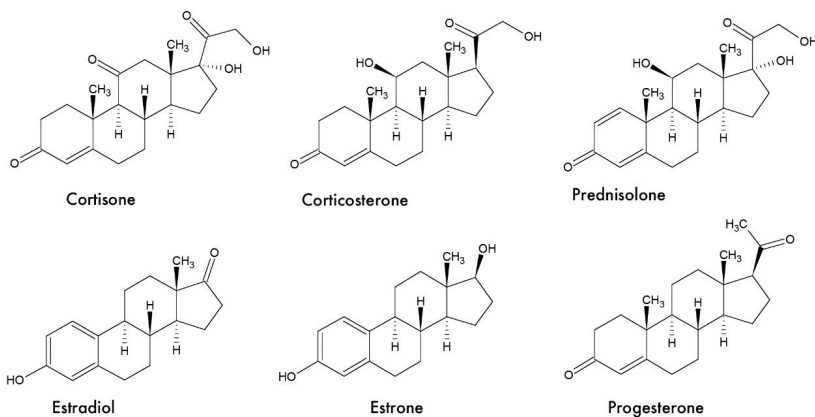
Abstract

This application brief demonstrates analysis of steroids using Sunfire C₁₈ and C₈ Columns.

Introduction

The compounds analysed in this study using Sunfire C₁₈ Columns are -

Compounds	USP tailing
1. Prenisolone	na
2. Cortisone	na
3. Corticosterone	0.99
4. Estradiol	1.05
5. Estrone	1.04
6. Progesterone	0.97



The compounds analysed in this study using Sunfire C₈ Columns are -

Compounds	USP tailing
1. Prenisolone	na
2. Cortisone	na
3. Corticosterone*	0.99
4. Estradiol*	0.96
5. Estrone	0.97
6. *	0.92

*stock solution prepared in acetonitrile

Experimental

Conditions

Column:	SunFire C ₁₈ 4.6 x 20 mm <i>IS</i> , 3.5 µm
Part number:	186002549
Mobile phase A:	Water
Mobile phase B:	Acetonitrile
Flow rate:	3.0 mL/min
Injection volume:	10 µL
Sample concentration:	10 µg/mL in water
Temperature:	30 °C

Detection: UV @ 220 nm

Instrument: Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	80	20
4.0	36	64

Conditions

Column: SunFire C₈ 4.6 x 20 mm *IS*, 3.5 µm

Part number: 186002699

Mobile phase A: Water

Mobile phase B: Acetonitrile

Flow rate: 3.0 mL/min

Injection volume: 10 µL

Sample concentration: 10 µg/mL in water

Temperature: 30 °C

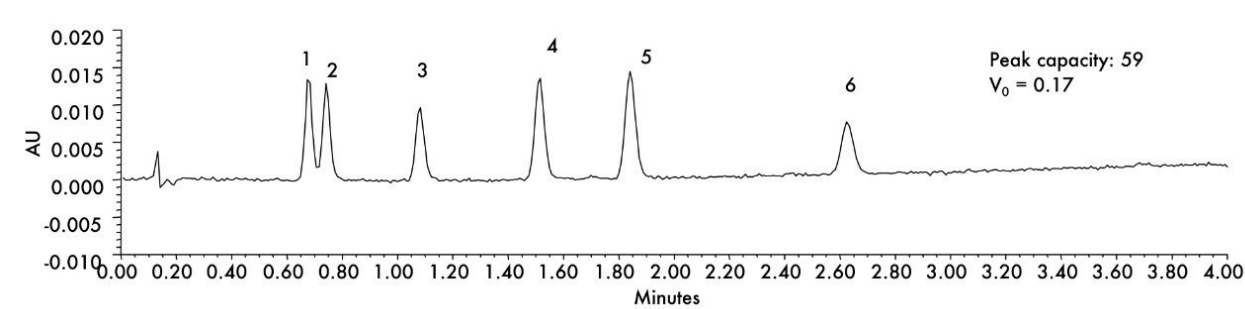
Detection: UV @ 220 nm

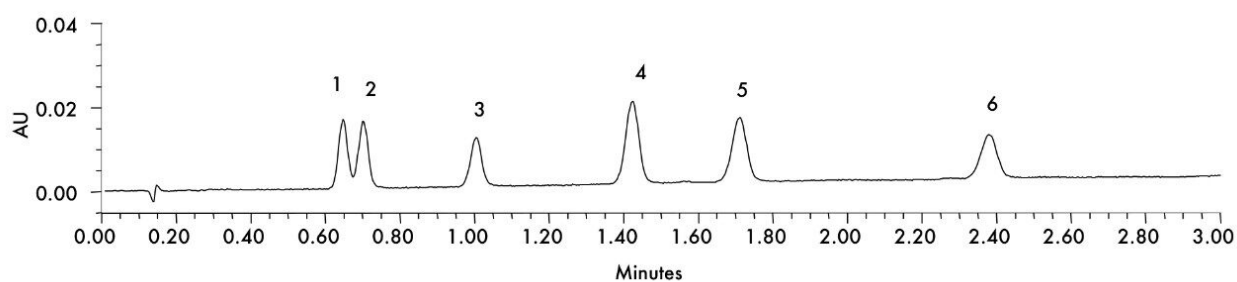
Instrument: Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	80	20
4.0	40	60

Results and Discussion





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

WA41900, March 2005