

應用手冊

Steroids

Waters Corporation



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

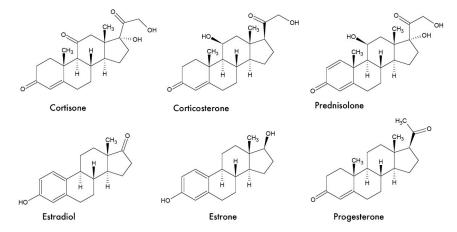
Abstract

This application brief demonstrates analysis of steroids using Sunfire C_{18} and C_{8} Columns.

Introduction

The compounds analysed in this study using Sunfire C_{18} 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 C_8 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	Profile	
(min)	%A	%B
0.0	80	20
4.0	36	64

Conditions

Column:	SunFire C ₈ 4.6 x 20 mm <i>IS</i> , 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

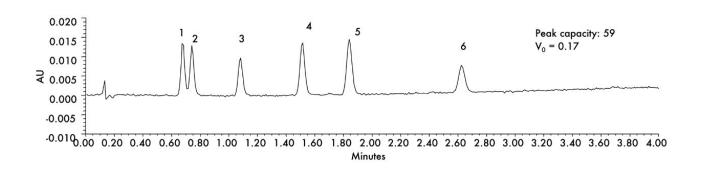
Detection: UV @ 220 nm

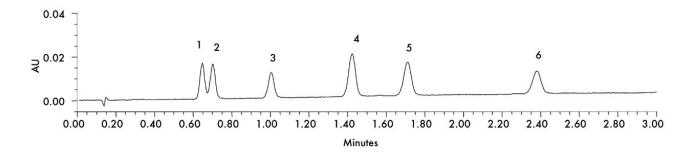
Instrument: Alliance 2695 with 2996 PDA

Gradient

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

Results and Discussion





Featured Products

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

WA41900, March 2005

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