Waters™

Steroids - 2.1 x 20 mm Intelligent Speed Separation

Waters Corporation

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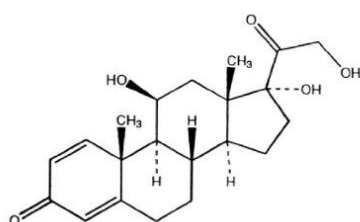
Abstract

This application brief demonstrates analysis of steroids using 2.1 x 20 mm Intelligent Speed Separation Column.
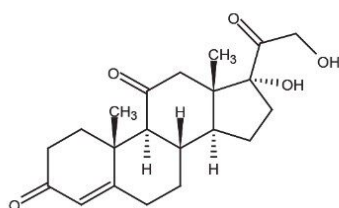

Introduction

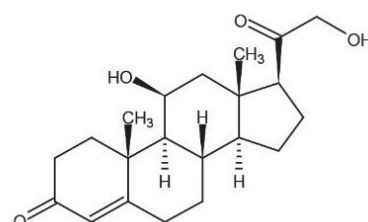The compounds used in this study are –

1. Prednisolone

2. Cortisone

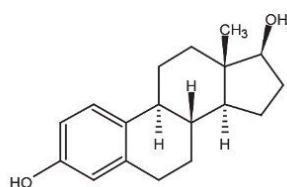3. Corticosterone

4. Estradiol

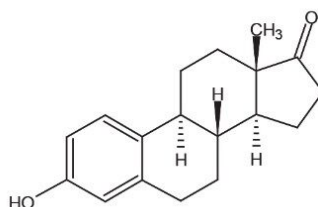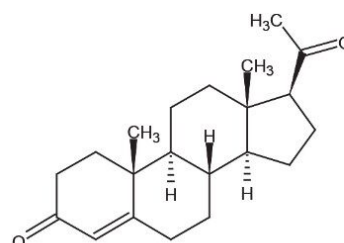5. Estrone

6. Progesterone

1. Prednisolone

2. Cortisone

3. Corticosterone

4. Estradiol

5. Estrone

6. Progesterone

Experimental

HPLC Method

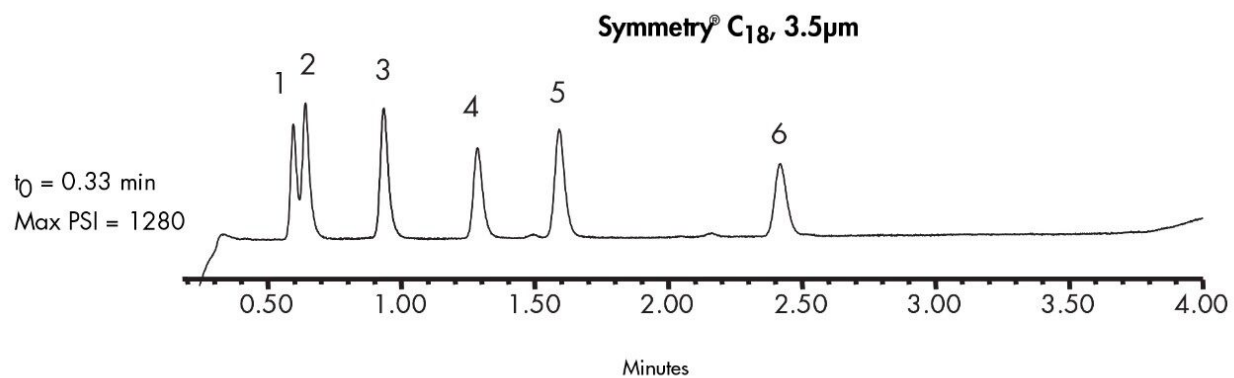|	
Column:	Symmetry C_{18}, 2.1 x 20 mm, 3.5 µm IS
Part numbers:	186002066
Mobile phase A:	Water
Mobile phase B:	ACN
Flow rate:	0.6 mL/min
Injection volume:	5 µL
Temperature:	30 °C
Detection:	UV @ 220 nm

Gradient

Time (min)	Profile	
	%A	%B
0	80	20
4	36	64

Results and Discussion

Symmetry® C$_{18}$, 3.5μm

t_0 = 0.33 min
Max PSI = 1280

1 2 3 4 5 6

0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00

Minutes

WA31763.151, June 2003