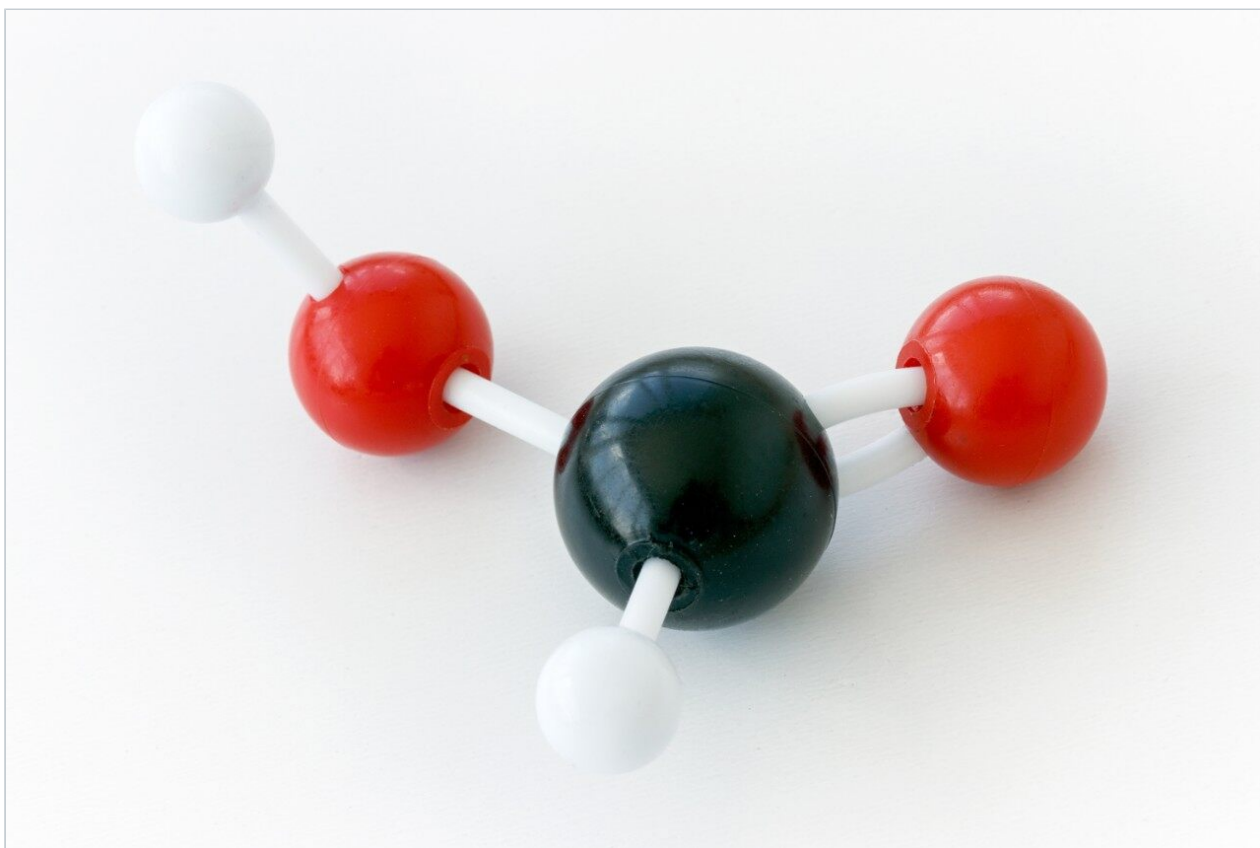




Steroids in Formic Acid

Waters Corporation



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

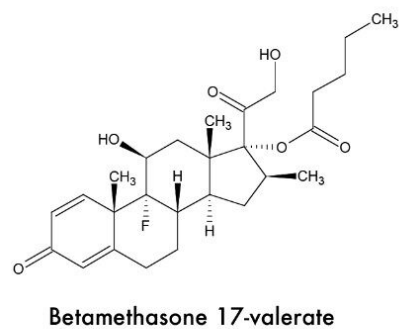
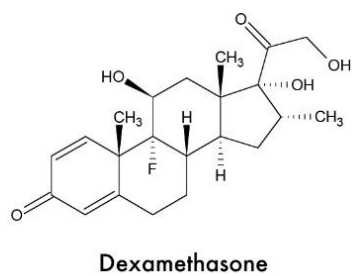
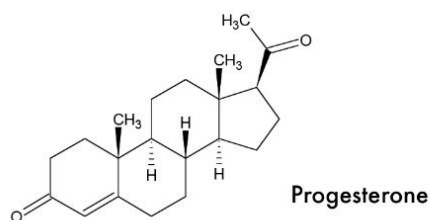
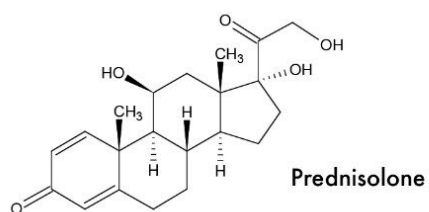
Abstract

This application brief demonstrates analysis of steroids in formic acid.

Introduction

The compounds used in this study are -

1. Prednisolone
2. Dexamethasone
3. Betamethasone 17-valerate
4. Progesterone



Experimental

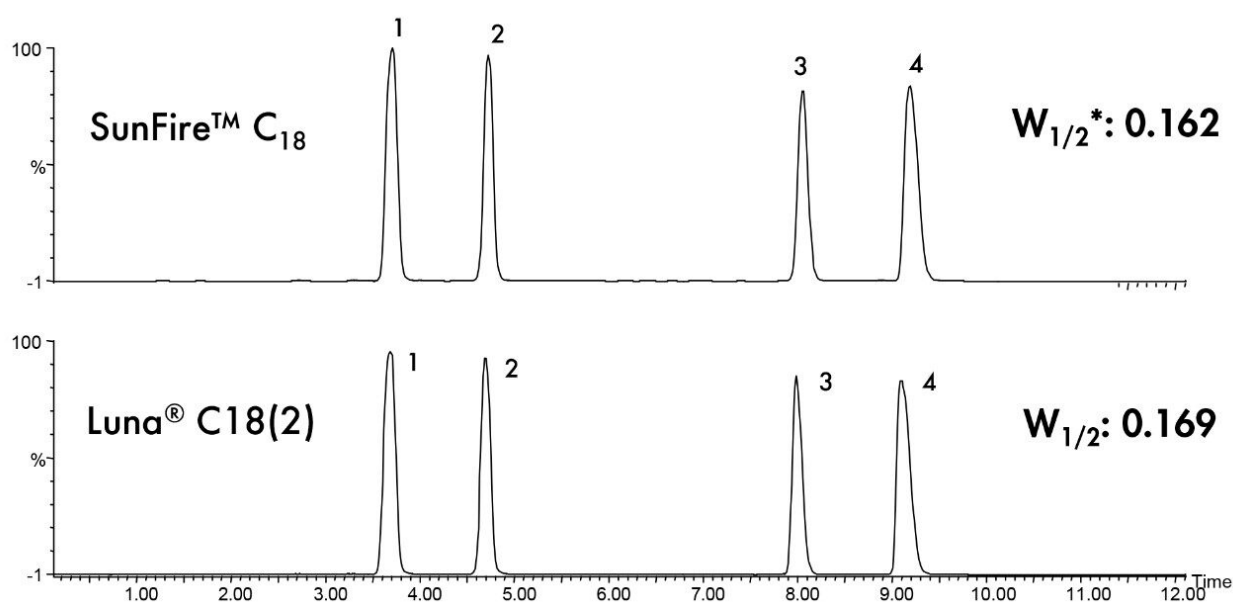
| | |
|-----------------|--|
| Column: | SunFire C ₁₈ 4.6 x 150 mm, 5 µm |
| Part number: | 186002559 |
| Mobile phase A: | 0.1% HCOOH in Water |

| | |
|-----------------------|-------------------------|
| Mobile phase B: | 0.1% HCOOH in ACN |
| Flow rate: | 1.4 mL/min |
| Injection volume: | 10 µL |
| Sample concentration: | 50 mg/mL each, in DMSO |
| Temperature: | Ambient |
| Detection: | UV @ 254 nm |
| Instrument: | AutoPurification System |

Gradient

| Time (min) | Profile | |
|---------------|---------|----|
| | %A | %B |
| 0.0 | 70 | 30 |
| 10.0 | 10 | 90 |

Results and Discussion



*: $W_{1/2}$ value is calculated based on the half width of the 1st peak.

Featured Products

AutoPurification System <<https://www.waters.com/10007147>>

WA41899, March 2005