Steroids
Separation of steroids on a 100 µm fused silica capillary column

Application Note

BioPharma

Authors
Agilent Technologies, Inc.

Introduction
Gas chromatography using an Agilent CP-Sil 19 CB column separates five derivatized steroids in 17 minutes.
**Conditions**

Technique: GC-capillary  
Column: Agilent CP-Sil 19 CB, 0.10 mm x 3 m fused silica  
WCOT CP-Sil 19 CB (0.2 µm) (Custom made*)  
Temperature: 70 °C (2 min) → 300 °C, 20 °C/min  
Carrier Gas: H₂, 80 kPa (0.8 bar, 11.6 psi)  
Injector: Splitless, 60 s, after 60 s split 30 mL/min  
T = 290 °C  
Detector: FID, 8 x 10⁻¹² Afs  
T = 300 °C  
Sample Size: 1.2 µL  
Concentration Range: 20 ng/µL

* This column is available from stock as a 10 m column under Part no. CP7782

**Peak identification**

1. diethylstilbestrol dipropionate  
2. estradiol dipropionate  
3. medroxyprogesteron acetate  
4. estradiol-3-benzoate  
5. nortestosterone decanoate  

20 ng/µL