



Steroids as HFBA esters

Determination of steroids in urine

Application Note

BioPharma

Authors

Agilent Technologies, Inc.

Introduction

Determination of eight steroids in urine on Agilent VF-17ms in less than 22 minutes.



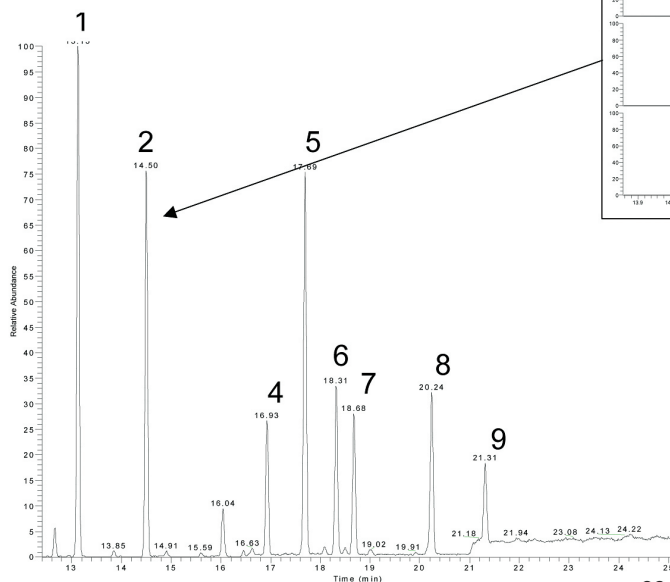
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Conditions

Technique : GC/MS
Column : Agilent VF-17ms, 0.25 mm x 30 m fused silica (film thickness = 0.25 μ m) (Part no. CP8982)
Temperature : 100 °C, (1 min) \rightarrow 175 °C, 15 °C/min \rightarrow 250 °C, 2.5 °C/min, \rightarrow 290 °C, 25 °C/min
Carrier Gas : He, 1.0 mL/min
Injection Technique : Splitless, Initial time : 1 min
Injection Temperature : 250 °C
Injection Volume : 1 μ L
Detector : MS Transferline: 300 °C Source: 250 °C
SIM used on specific masses
Concentration : Standard, 1 μ g/L
Sample Preparation : 2 mL urine, decoupled; SPE (C18 and Amino); HPLC pre-purification via diol;
Derivatization : with heptafluor butyric acid anhydride
Courtesy : Drs. R. Schilt and P. Boshuis, TNO Quality of Life, Dep. Analytical Services, The Netherlands

Peak identification

1. fluoxymesterone
2. methylandrostandiol
3. interference (not present)
4. α -nortestosterone
5. β -boldenone
6. β -nortestosterone
7. α -boldenone
8. β -estradiol
9. ethynylestradiol



22 minutes

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This information is subject to change without notice.

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