



Separation of hydroxylated bile acids and cholesterol

Application Note

Clinical Research

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 19 CB column separates 12 hydroxylated bile acids and cholesterol in 20 minutes.



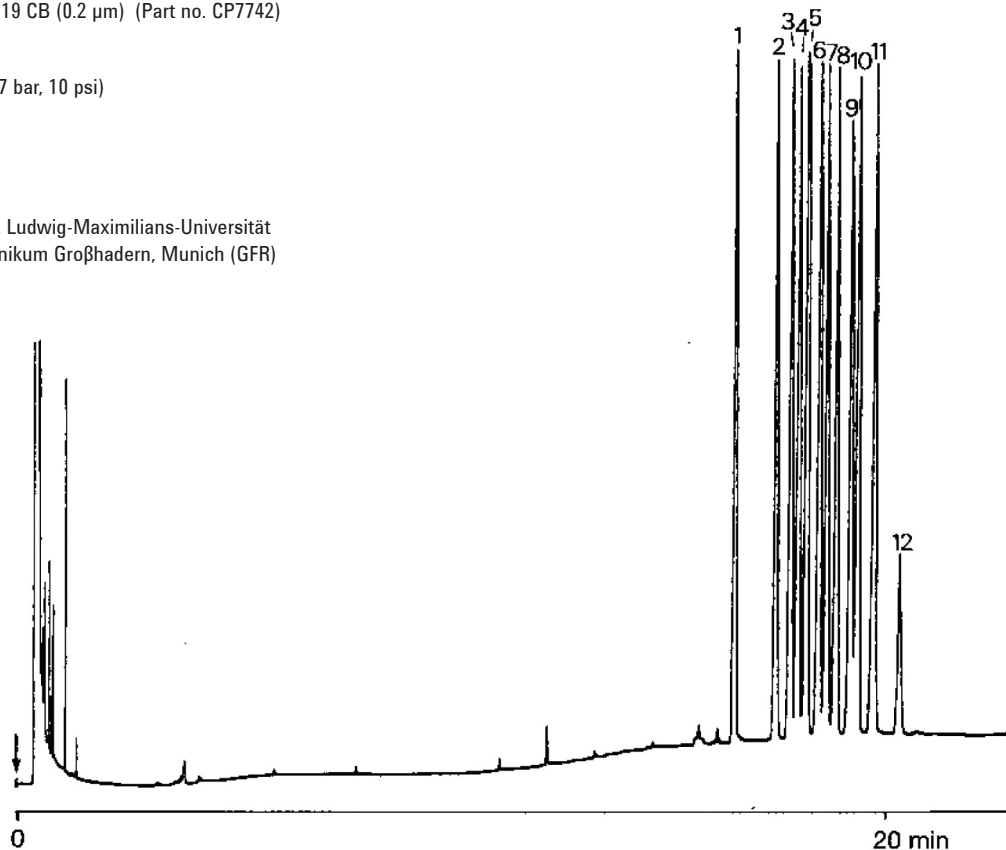
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 19 CB, 0.32 mm x 25 m fused silica
WCOT CP-Sil 19 CB (0.2 µm) (Part no. CP7742)
Temperature : 140 °C
Carrier Gas : H₂, 70 kPa (0.7 bar, 10 psi)
Injector : on-column
T = 140 °C
Detector : FID
Courtesy : Dr. F. Stellard, Ludwig-Maximilians-Universität
München, Klinikum Großhadern, Munich (GFR)

Peak identification

1. cholesterol
2. iso-lithocholic acid
3. lithocholic acid
4. iso-chenodeoxycholic acid
5. iso-deoxycholic acid
6. deoxycholic acid
7. cholic acid
8. chenodeoxycholic acid
9. 3β-OH-5-cholenoic acid
10. hyodeoxycholic acid
11. ursodeoxycholic acid
12. hyocholic acid



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