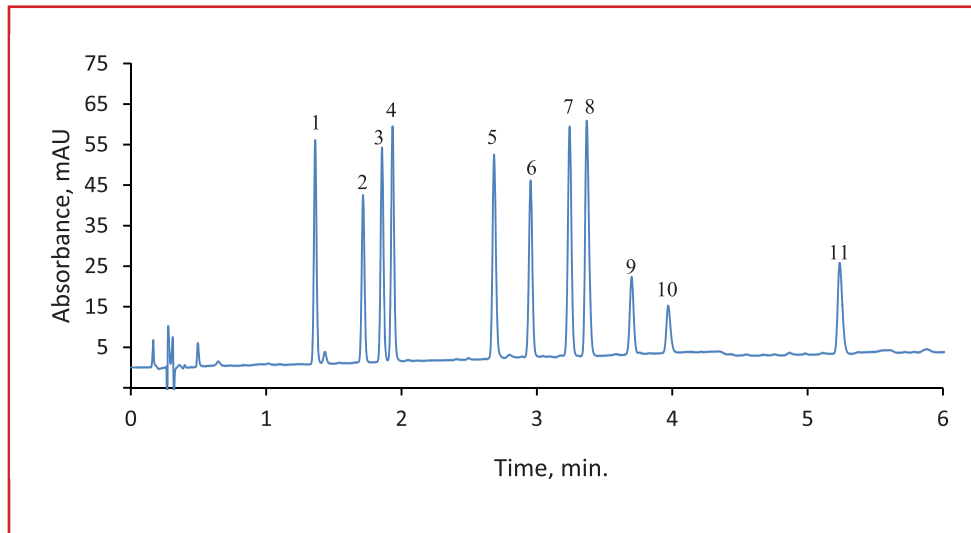




Separation of Steroids on HALO 90 Å Biphenyl

Application Note 169-STR



PEAK IDENTITIES:

1. Estriol
2. Hydrocortisone
3. Prednisone
4. Cortisone
5. Corticosterone
6. β -Estradiol
7. Cortisone Acetate
8. Testosterone
9. 17- α -Hydroxyprogesterone
10. 11-Deoxycorticosterone
11. Progesterone

A mixture of eleven steroids is separated using a 6-minute gradient on a HALO 90 Å Biphenyl column. The chromatogram shows very good resolution between all peak pairs with excellent peak shape and high efficiency.

TEST CONDITIONS:

Column: HALO 90 Å Biphenyl, 2.7 μ m, 4.6 x 50 mm
Part Number: 92814-411
Mobile Phase:
 A: Water
 B: Acetonitrile
Gradient: 20-60% B in 6 min
Flow Rate: 1.85 mL/min
Pressure: 344 bar
Temperature: 30 °C
Detection: UV 215 nm, PDA
Injection Volume: 4.0 μ L
Sample Solvent: 37.5/62.5 acetonitrile/water
Response Time: 0.025 sec
Data Rate: 100 Hz
Flow Cell: 1.0 μ L
LC System: Shimadzu Nexera X2

STRUCTURES:

