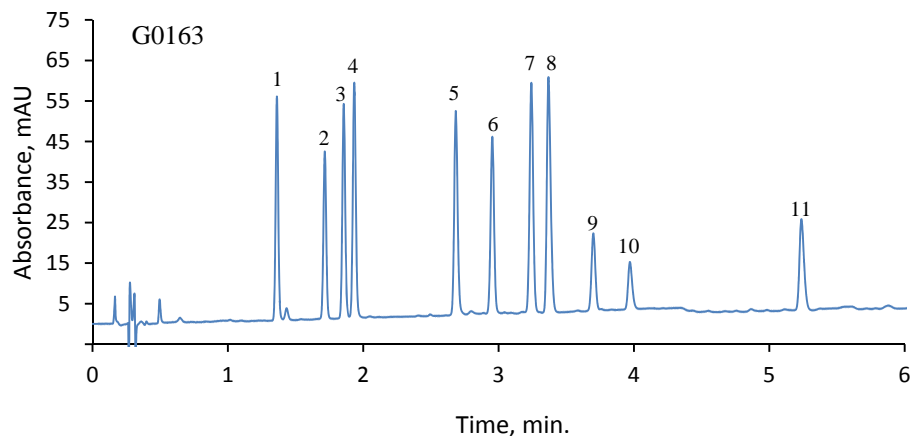


## Separation of Steroids on HALO 90Å Biphenyl



### PEAK IDENTITIES:

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

### TEST CONDITIONS:

Column: HALO 90Å Biphenyl, 2.7  $\mu$ m, 4.6 x 50mm

Part Number: 92814-411

Mobile Phase A: Water

Mobile Phase B: Acetonitrile

Gradient: 20-60% B in 6 minutes

Flow Rate: 1.85 mL/min

Initial Pressure: 344 bar

Temperature: 30°C

Detection: UV 215 nm, PDA

Injection Volume: 4  $\mu$ L

Sample Solvent: Acetonitrile:water, 37.5:62.5

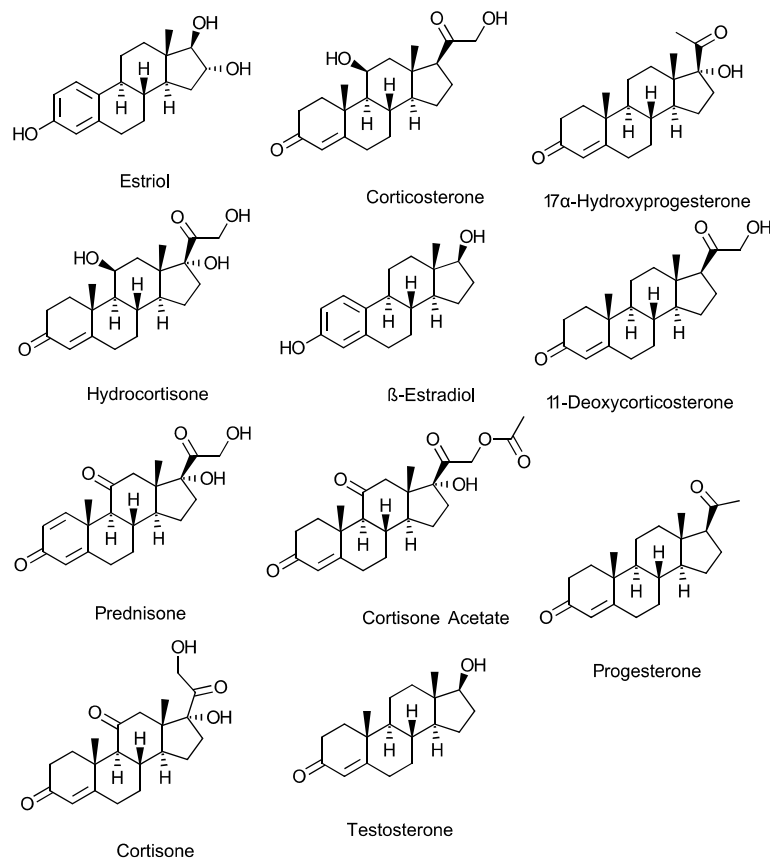
Data Rate: 100 Hz

Response Time: 0.025 sec

Flow Cell: 1  $\mu$ L

LC System: Shimadzu Nexera X2

### STRUCTURES:



A mixture of 11 steroids is separated using a 6-minute gradient on a HALO 90Å Biphenyl column. The chromatogram shows very good resolution between all peak pairs with excellent peak shape and high efficiency.