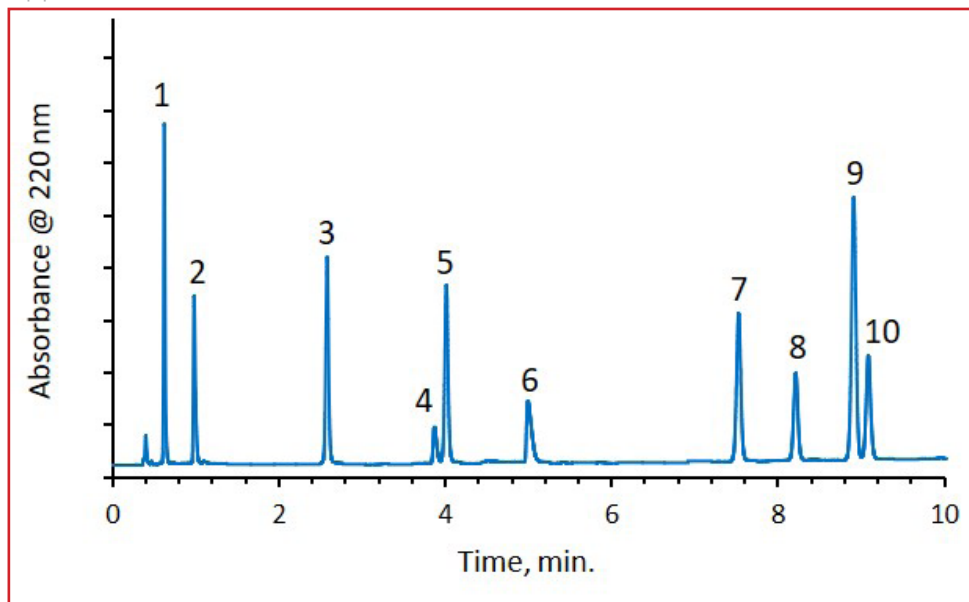




Separation of Steroid Hormones and Hormone Conjugates on HALO® C18

Application Note 142-STR



PEAK IDENTITIES:

1. Estriol-3-(β-D-glucuronide)
2. Estriol-3-Sulfate
3. Estrone-3-(β-D-glucuronide)
4. β-Estradiol-3-Sulfate
5. Estriol
6. Estrone-3-Sulfate
7. β-Estradiol
8. α-Estradiol
9. Androstenedione
10. Estrone

Steroid hormones and hormone conjugates are monitored for a variety of medical reasons. This fast separation of ten estrogens and estrogen-related compounds was accomplished with a HALO® C18 column.

TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 μm,
2.1 x 100 mm

Part Number: 92812-602

Mobile Phase:

A: 10 mM phosphate buffer, pH 7.0

B: Acetonitrile

Gradient:	Time (min)	% B
	0.0	20
	10.0	43

Flow Rate: 0.5 mL/min

Pressure: 366 bar

Temperature: 25 °C

Detection: UV 220 nm, PDA

Injection Volume: 4.0 μL

Sample Solvent: 84/16 water/acetonitrile

Response Time: 0.05 sec

Data Rate: 40 Hz

Flow Cell: 1.0 μL

LC System: Shimadzu Nexera X2

STRUCTURES:

