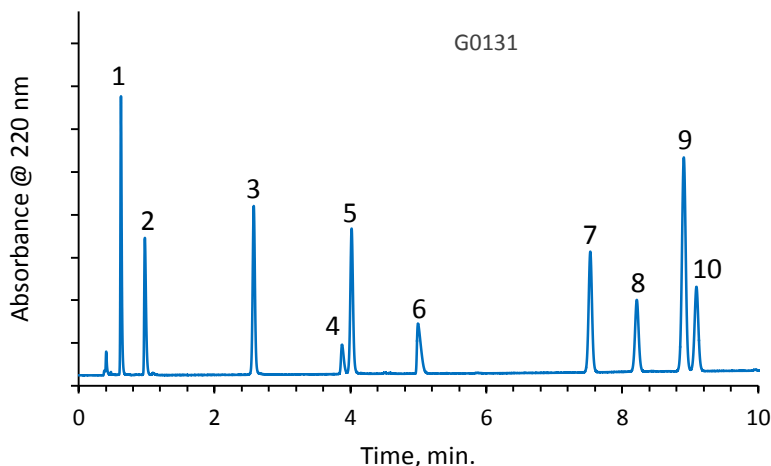


Application Note: 142-STR

Separation of Steroid Hormones and Hormone Conjugates on HALO C18



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

TEST CONDITIONS:

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

Part Number: 92812-602

A= 10 mM phosphate buffer, (pH=7)

B= acetonitrile

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

Flow Rate: 0.5 mL/min.

Pressure: 366 bar

Temperature: 25 °C

Injection Volume: 4 μL

Sample Solvent: 84/16 water/acetonitrile

Detection: UV 220 nm, PDA

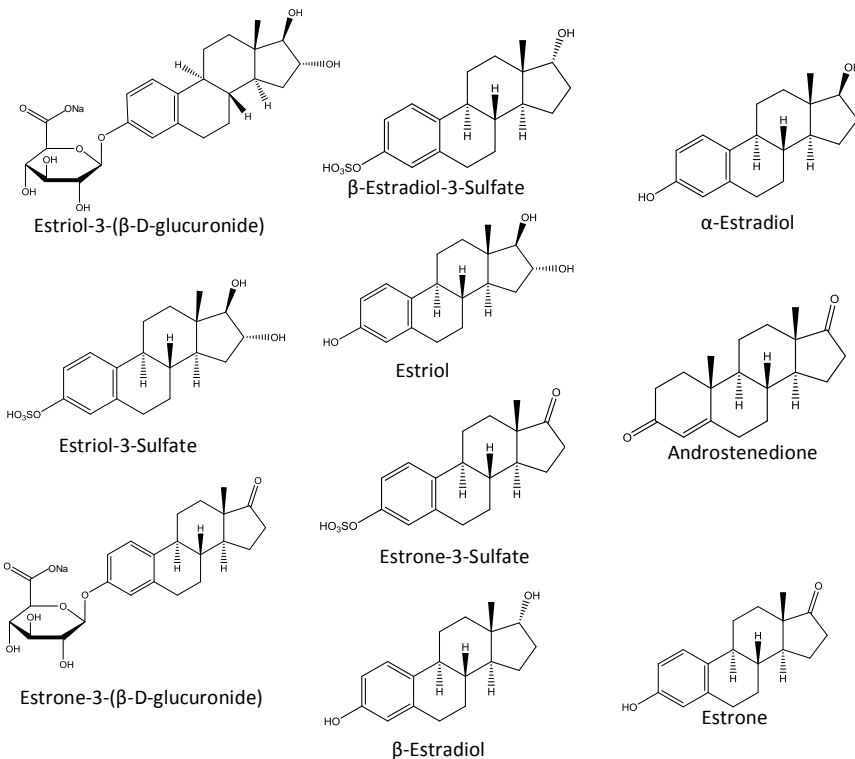
Data Rate: 40 Hz

Response Time: 0.05 sec.

Flow Cell: 1 μL

LC System: Nexera X2

STRUCTURES:



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.