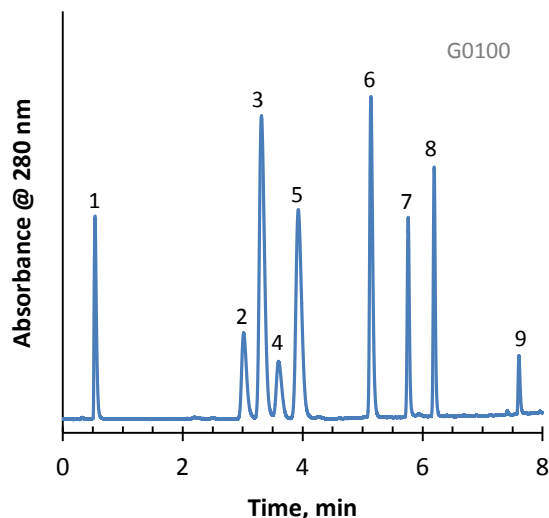


Application Note: 116-STR

Separation of Steroids on HALO 2 PFP



PEAK IDENTITIES:

1. Uracil
2. Hydrocortisone
3. Prednisolone
4. Cortisone
5. Prednisone
6. Dexamethasone
7. β -Estradiol
8. Estrone
9. Halcinonide

TEST CONDITIONS:

Column: 3.0 x 50 mm, HALO 2 PFP

Part Number: 91813-409

Mobile Phase A: water

Mobile Phase B: methanol

Gradient: Time (min.)	%B
0	47
3	47
8	88

Flow Rate: 0.4 mL/min.

Pressure: 180 bar initial

Temperature: 35°C

Detection: UV 280 nm, VWD

Injection Volume: 2 μ L

Sample Solvent: methanol

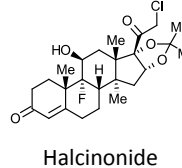
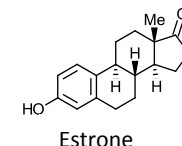
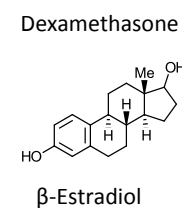
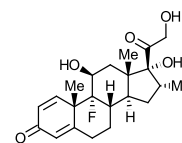
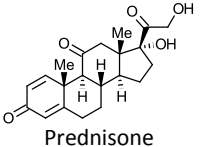
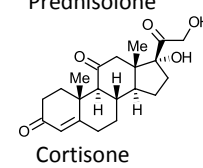
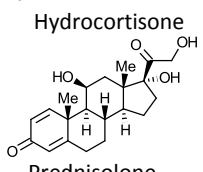
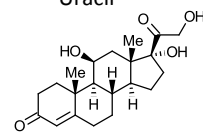
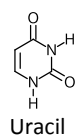
Response Time: 0.02 sec.

Flow Cell: 2.5 μ L semi-micro

LC System: Shimadzu Prominence UFLC XR

ECV: ~14 μ L

STRUCTURES:



HALO 2 PFP is useful in the separation of closely related steroids. Even though this separation was run on a system with 14 μ L of extra-column volume, there is sufficient efficiency with a HALO 2 column to separate the first four steroids during the isocratic hold at the beginning of the run.