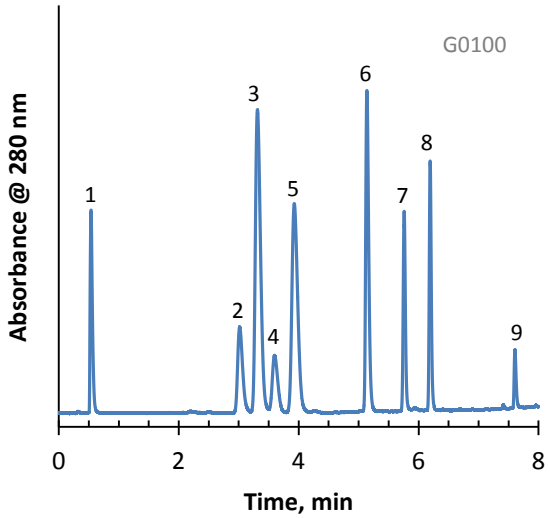
Application Note: 116-STR

# 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:

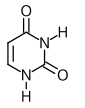
Column: 3.0 x 50 mm, HALO 2 PFP
Part Number: 91813-409
Mobile Phase A: water
Mobile Phase B: methanol
Gradient:

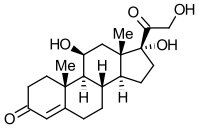
| Time (min.) | %B |
|---|---|
| 0 | 47 |
| 3 | 47 |
| 8 | 88 |

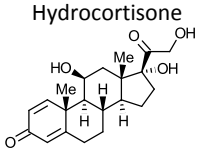
Flow Rate: 0.4 mL/min.
Pressure: 180 bar initial
Temperature: 35°C
Detection: UV 280 nm, VWD
Injection Volume: 2 µL
Sample Solvent: methanol
Response Time: 0.02 sec.
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
ECV: ~14 µL

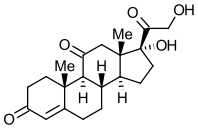
HALO 2 PFP is useful in the separation of closely related steroids. Even though this separation was run on a system with 14 µL of extra-column volume, there is sufficient efficiency with a HALO 2 column to separate the first four steroids during the isocratic hold at the beginning of the run.

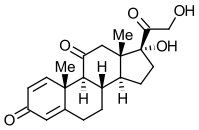
## STRUCTURES:

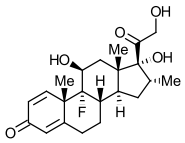

Uracil

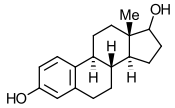

Hydrocortisone

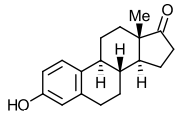

Prednisolone

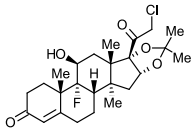

Cortisone


Prednisone


Dexamethasone


β-Estradiol


Estrone


Halcinonide



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