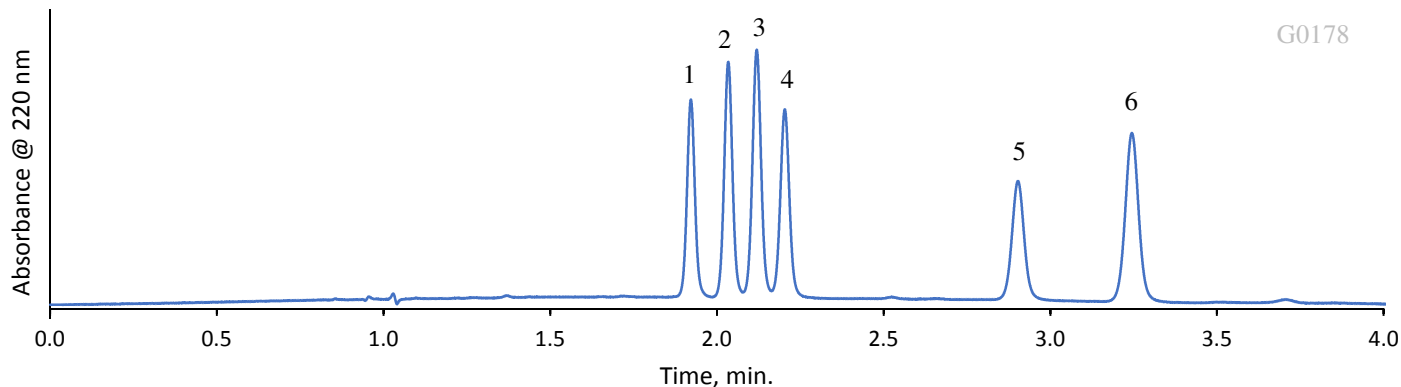


Separation of Glucocorticoids on HALO® C30



TEST CONDITIONS:

Column: HALO 160Å C30, 2.7 μm, 4.6 x 150mm

Part Number: 92114-730

Mobile Phase A: Water

Mobile Phase B: 50/50 Acetonitrile/ Methanol

Isocratic: 50% B

Flow Rate: 1.5 mL/min

Pressure: 355 bar

Temperature: 50°C

Detection: UV 220 nm, PDA

Injection Volume: 0.5 μL

Sample Solvent: Acetonitrile

Data Rate: 40 Hz

Response Time: 0.025 sec

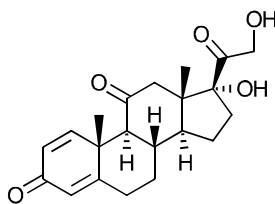
Flow Cell: 1 μL

LC System: Shimadzu Nexera X2

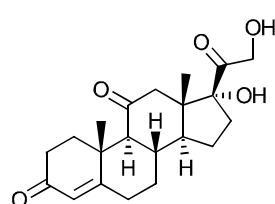
PEAK IDENTITIES:

- | | |
|-----------------|-------------------|
| 1. Prednisone | 4. Hydrocortisone |
| 2. Cortisone | 5. Dexamethasone |
| 3. Prednisolone | 6. Corticosterone |

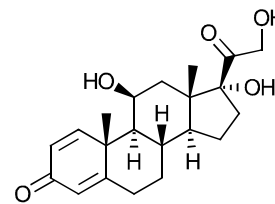
STRUCTURES:



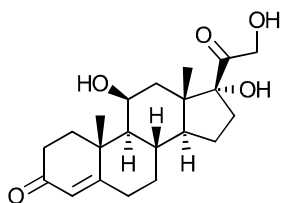
Prednisone



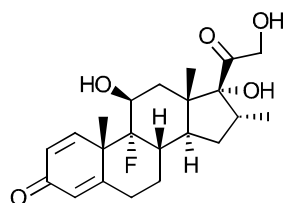
Cortisone



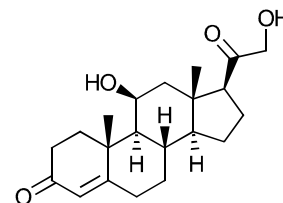
Prednisolone



Hydrocortisone



Dexamethasone



Corticosterone

Glucocorticoids are a class of steroid drugs that have anti-inflammatory and anti-allergy benefits, as well as anti-lymphatic cancer uses. This mixture of six glucocorticoids is separated with high resolution in less than four minutes on a HALO C30 column.