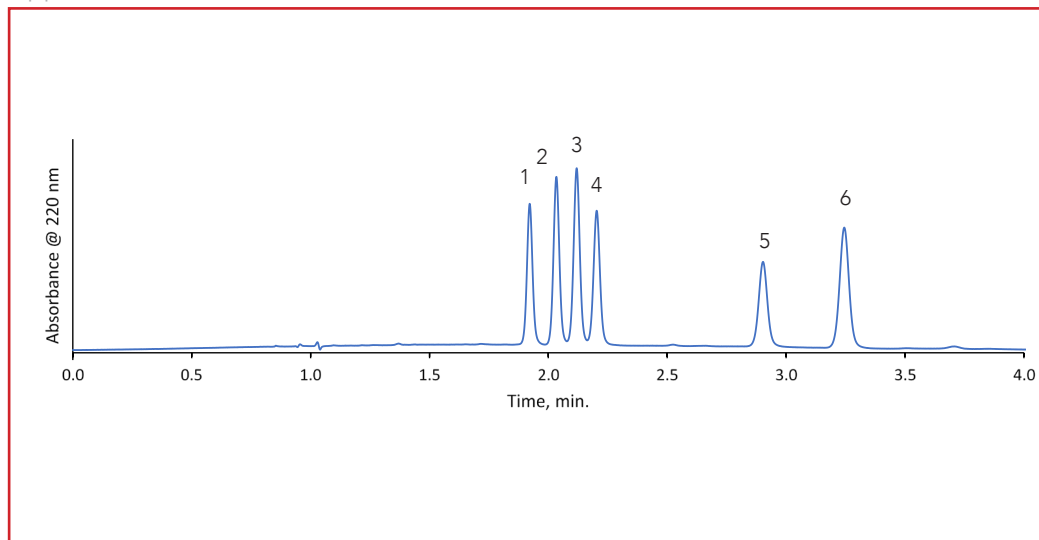




### Separation of Glucocorticoids on HALO® C30

Application Note 184-STR



#### PEAK IDENTITIES:

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

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

#### TEST CONDITIONS:

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

**Part Number:** 92114-730

**Mobile Phase:**

A: Water

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

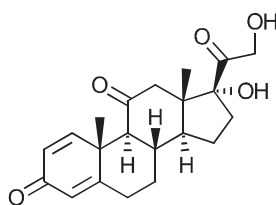
**Response Time:** 0.025 sec

**Data Rate:** 40 Hz

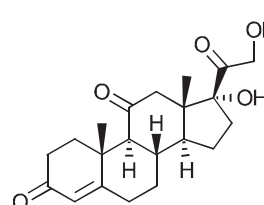
**Flow Cell:** 1.0 µL

**LC System:** Shimadzu Nexera X2

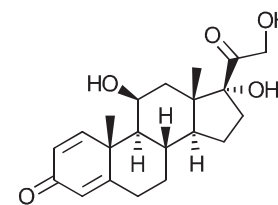
#### STRUCTURES:



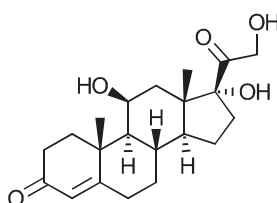
Prednisone



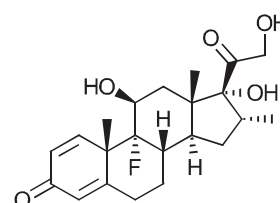
Cortisone



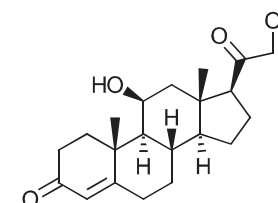
Prednisolone



Hydrocortisone



Dexamethasone



Corticosterone

