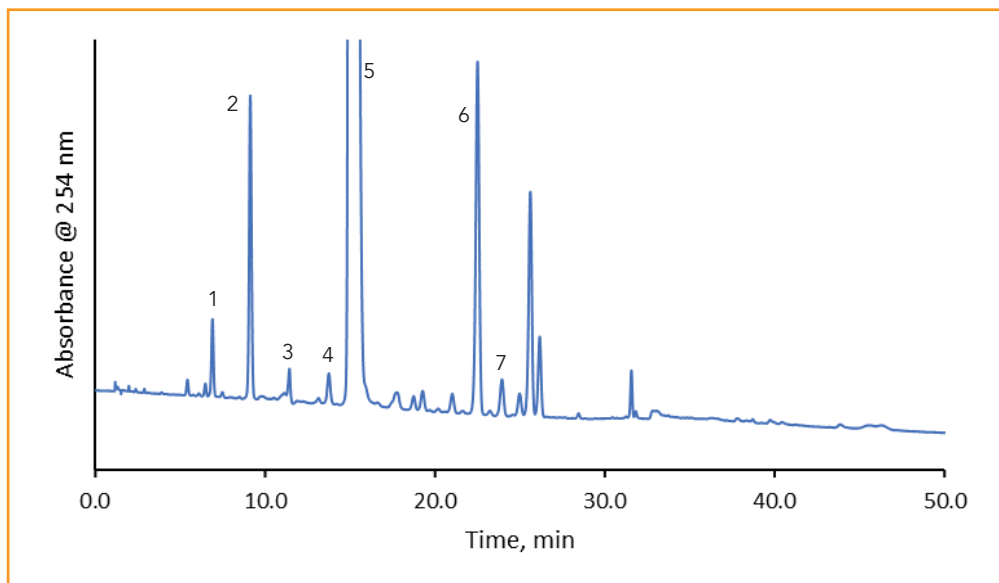




## Dexamethasone Sodium Phosphate (EP 10.0)

257-S



### TEST CONDITIONS:

**Column:** HALO 90 Å C8, 5 µm, 4.6x150 mm

**Part Number:** 95814-708

**Mobile Phase A:** 300 mL solution A, 350 mL water, 350 mL MeOH, pH: 3.8

**Mobile Phase B:** 300 mL solution A, pH: 4, 700 mL MeOH  
 solution A: dissolve 7.0 g of ammonium acetate in 1000 mL water

Gradient:	Time	%B
	0.0	10
	3.5	10
	23.5	40
	34.5	95
	50.0	95

**Flow Rate:** 1.0 mL

**Pressure:** 209 bar

**Temperature:** 30 °C

**Detection:** UV 254 nm, PDA

**Injection Volume:** 20 µL Reference Solution B

**Sample Solvent:** mobile phase A

**Data Rate:** 100 Hz

**Response Time:** 0.025 sec

**Flow Cell:** 1 µL

**LC System:** Shimadzu Nexera X2

### PEAK IDENTITIES

1. Impurity C
2. Impurity D
3. Impurity E
4. Impurity F
5. Dexamethasone sodium phosphate
6. Impurity A
7. Impurity G

Dexamethasone relieves inflammation and is used to treat several conditions such as arthritis, allergic reactions, and bowel disorders. A HALO 90 Å C8, 5µm column is used to separate dexamethasone and its impurities following the European Pharmacopoeia 10.0 method.

