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## Product Information

### DEXAMETHASONE SIGMA REFERENCE STANDARD

Product No. **D 6645**

Storage Temperature: 2 - 8 °C

Formula:  $C_{22}H_{29}FO_5$

Formula Weight: 392.47

CAS No: 50-02-2

Synonyms: Pregna-1,4-diene-3,20-dione,  
9-fluoro-11,17,21-trihydroxy-16-methyl-,  
(11 $\beta$ ,16 $\alpha$ )-.

9-Fluoro-11 $\beta$ ,17,21-trihydroxy-  
16 $\alpha$ -methylpregna-1,4-diene-3,20-dione.

#### Product Description

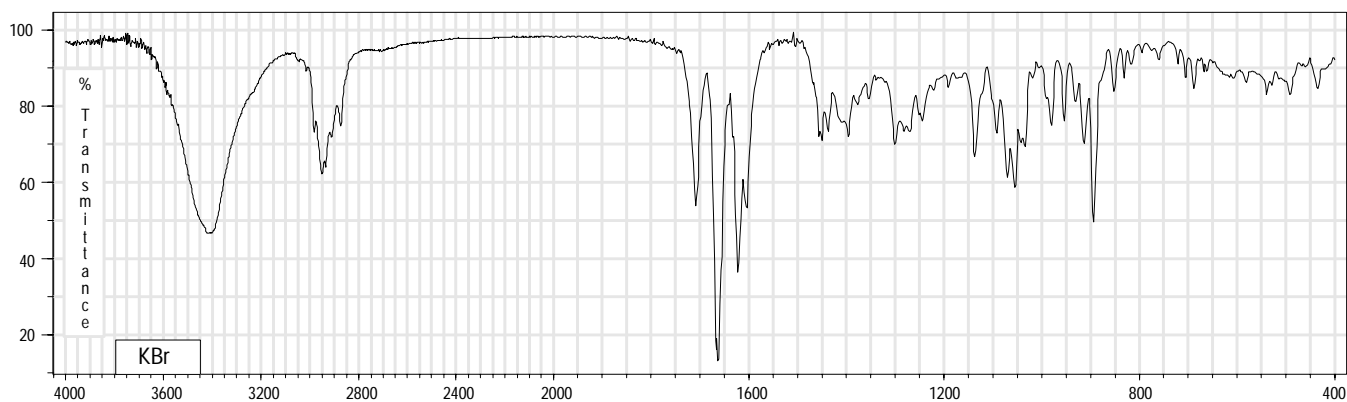
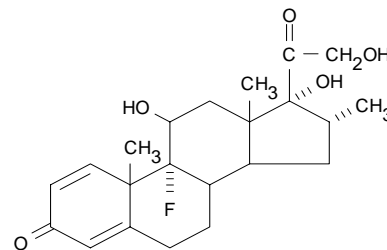
This product meets USP specifications (Current through USP 22, 8th Supplement), and is traceable to USP Reference Standard lot H-1

Store in sealed vial at 2 - 8 °C. Bring vial to room temperature before opening. Dry a portion at 105°C for 3 hours before using. Use promptly. Discard unused material.

TEST	USP 22 SPECIFICATIONS	Result Sigma R.S. Lot 53H5956
Infrared absorption spectrum KBr dispersion 197K	compares to standard	conforms to USP RS lot H-1
Ultraviolet absorption. 1 in 100,000 solution in methanol	compares to standard	conforms to USP RS lot H-1
Specific rotation $[\alpha]_D^{25}$ 100 mg/10 mL solution in dioxane 781	between + 72° and +80°	+ 77.1°
Loss on drying 731	not more than 0.5%	passes
Residue on ignition 281	not more than 0.2% from 250 mg	passes
Ordinary impurities	not more than 2.0%	passes
Assay High Performance Liquid Chromatography 621	not less than 97.0% and not more than 102.0%	101.0%

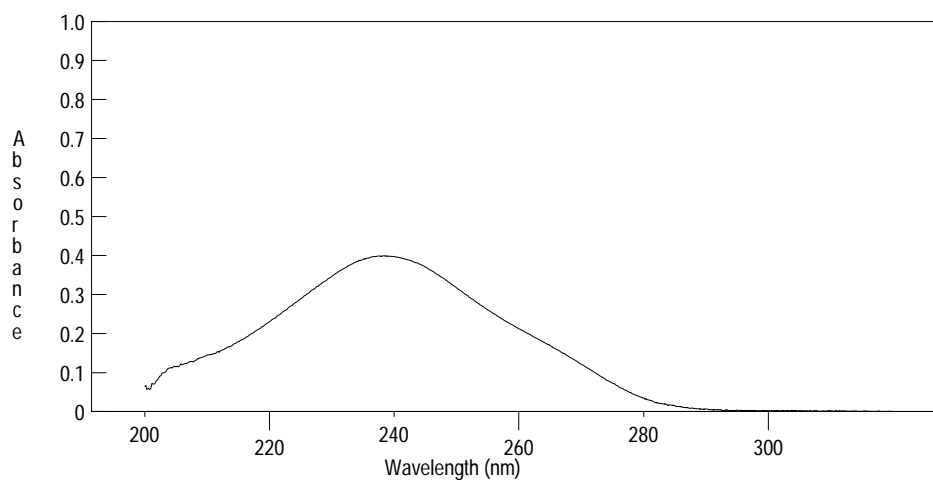
See reverse side for IR and UV spectrum of Sigma Reference Standard.

**DEXAMETHASONE**  
**SIGMA REFERENCE STANDARD**  
Product No. **D 6645**



INFRARED SPECTRUM

KBr dispersion  
Wavenumbers (cm<sup>-1</sup>)



ULTRAVIOLET SPECTRUM

9.97 µg/ml in alcohol