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Product Information

DEXAMETHASONE SIGMA REFERENCE STANDARD

Product No. **D 6645**

Lot No: 71K8802

Storage Temperature: room temperature

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

Formula Weight: 392.47

CAS No: 50-05-2

Synonyms: Pregna-1,4-diene-3,20-dione, 9-fluoro-11,17,21-trihydroxy-16-methyl-, (11 β ,16 α)-9-Fluoro-11 β ,17,21-trihydroxy-16 α -methylpregna-1,4-diene-3,20-dione.

Product Description

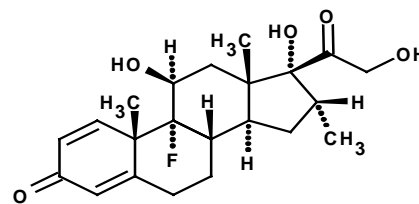
This product meets USP specifications (Current through USP 24, 4th Supplement), and is traceable to USP Reference Standard lot J

Store in sealed vial at room temperature. Protect from light. Dry a portion at 105°C for 3 hours before using. Use promptly. Discard unused material.

TEST	USP 24 SPECIFICATIONS	Result Sigma R.S. Lot 71K8802
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot J
Ultraviolet absorption 10 μ g/mL in methanol (197 U)	absorptivities at 239 nm, calculated on the anhydrous basis, differ by not more than 3.0%	meets requirement
Specific rotation 10 mg per mL in dioxane (781 S)	between +72° and +80°	+76°
Loss on drying (731)	not more than 0.5%	meets requirement
Residue on ignition (281)	not more than 0.2% from 250 mg	passes
Chromatographic purity (621)	not more than 1% of any individual impurity is found and not more than 2% of total impurities is found	passes
Organic Volatile Impurities Method IV (467)	meets requirement	passes
Assay (621)	not less than 97.0% and not more than 102.0%	102.0%

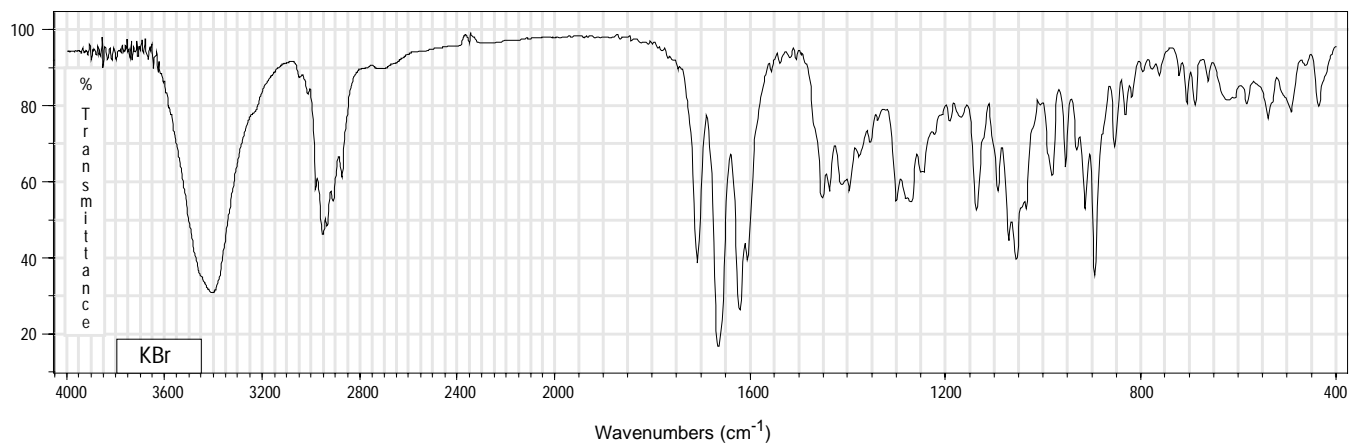
See reverse side for IR & UV spectrum of Sigma Reference Standard.

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SIGMA REFERENCE STANDARD
Product No. **D 6645**
Lot 71K8802



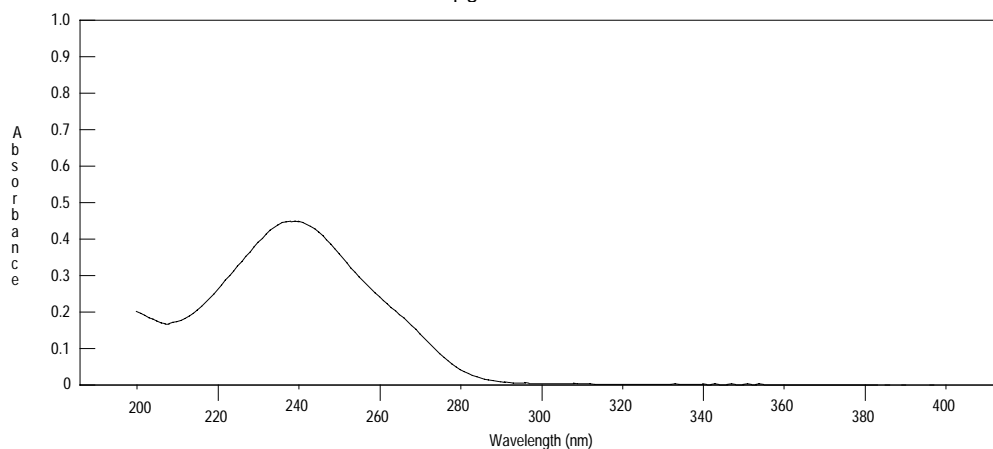
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

11.52 µg/mL in methanol



7/2001

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