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ProductInformation

DEXAMETHASONE SIGMA REFERENCE STANDARD

Product No. D6645

Lot No: 44K8808 CAS No: 50-02-2

Storage Temperature: 2-8 °C Synonyms: Pregna-1,4-diene-3,20-dione, 9-fluoro-11,17,21-trihydroxy-16-methyl-, (11β,16α)-.

Formula: $C_{22}H_{29}FO_5$ 9-Fluoro-11 β ,17,21-trihydroxy-

Formula Weight: 392.47 16α-methylpregna-1,4-diene-3,20-dione.

Product Description

This product meets USP specifications (Current through USP 27, 1st Supplement), and is traceable to USP Reference Standard lot J.

Store at room temperature in well-closed containers. Dry a portion at 105°C for 3 hours before using. Use promptly. Discard unused material.

TEST	USP 27 SPECIFICATIONS	Result Sigma R.S. Lot 44K8808
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot J
Ultraviolet absorption 〈197U〉 10 μg per mL	absorptivities at 239 nm differ by not more than 3.0%	meets requirement
Specific rotation 〈781S〉 10 mg per mL, in dioxane	between +72° and +80°	+74°
Loss on Drying (731)	not more than 0.5%	passes
Residue on ignition (281)	not more than 0.2%	passes
Chromatographic purity (621)	to pass test	passes
Organic Volatile impurities Method IV (467)	meets requirements	Meets requirements
Assay	not less than 97.0% and not more than 102.0%	98.6%

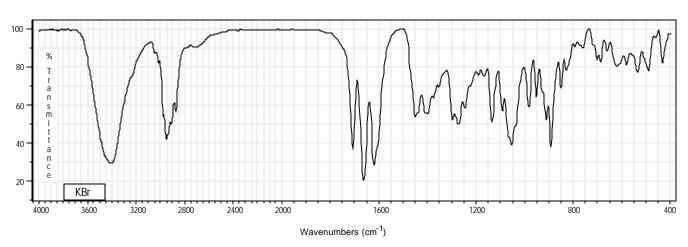
See reverse side for IR and UV spectrum of Sigma Reference Standard.

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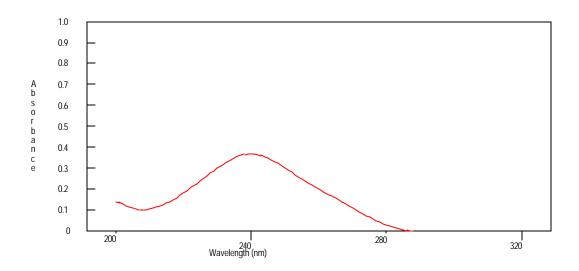
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

10.00 μg/mL in methanol



4/2004

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