



Saint Louis, Missouri 63103 USA
Telephone (800) 325-5832 (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

DEXAMETHASONE SIGMA REFERENCE STANDARD

Product No. **D 6645**

Lot No: 71K8802

Storage Temperature: 2-8 °C

Formula: C₂₂H₂₉FO₅

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-, (11β,16α)-9-Fluoro-11β,17,21-trihydroxy-16α-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.

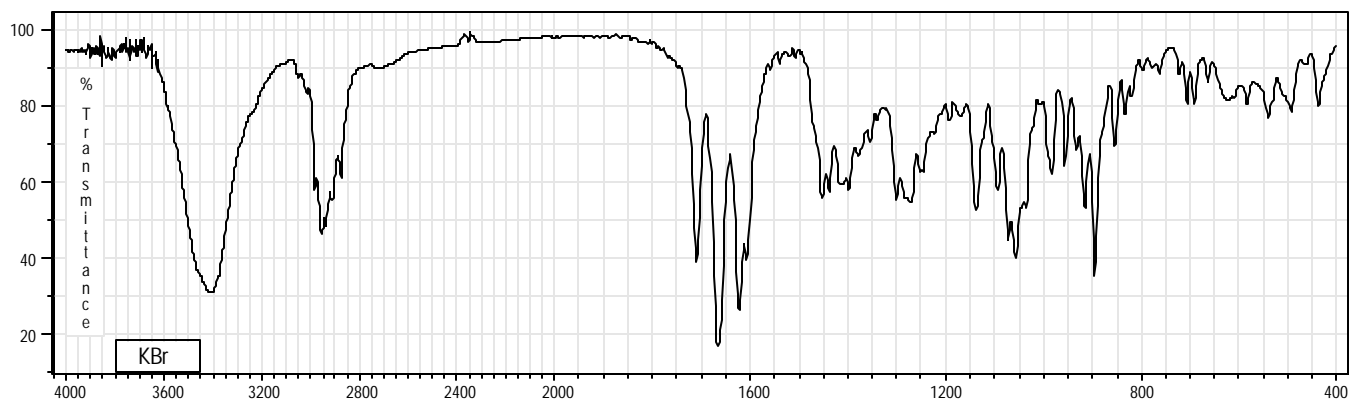
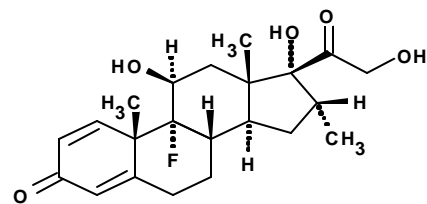
TEST	USP 24 SPECIFICATIONS	Result Sigma R.S. Lot 71K8802
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot J
Ultraviolet absorption 10 µg/mL in methanol (197 U)	absorptivities at 239 nm, calculated on the anhydrous basis, differ by not more than 3.0%	meets 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.

DEXAMETHASONE
SIGMA REFERENCE STANDARD

Product No. **D 6645**

Lot 71K8802

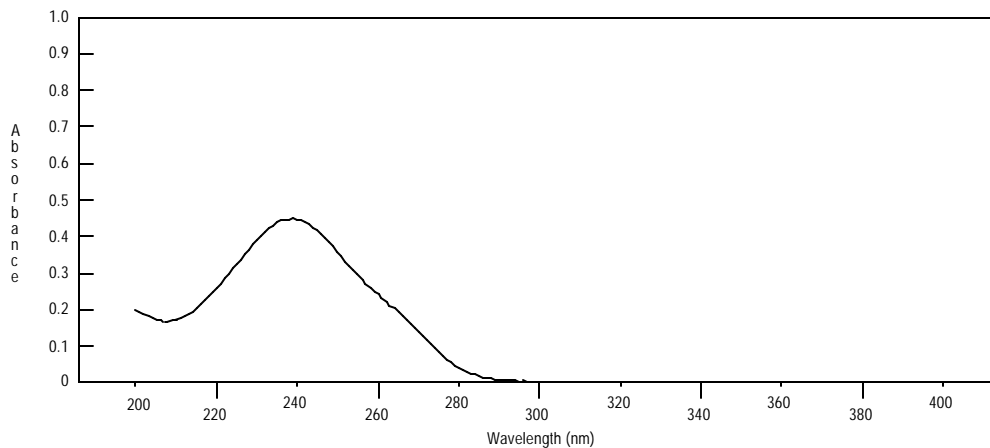


INFRARED SPECTRUM

KBr dispersion
Wavenumbers (cm⁻¹)

ULTRAVIOLET SPECTRUM

11.52 µg/mL in methanol



7/2001

For R&D use only. Not for drug, household or other uses. Sigma brand products are sold through Sigma-Aldrich, Inc. Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.