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## Product Information

### HYDROCORTISONE SIGMA REFERENCE STANDARD

Product No. **H5885**

Lot No: 109H8808

Storage Temperature: room temperature

Formula:  $C_{21}H_{30}O_5$

Formula Weight: 362.46

CAS No: 50-23-7

Synonyms: Pregn-4-ene-3,20-dione,  
11,17,21-trihydroxy-, (11  $\beta$ )-  
Cortisol.

#### Product Description

This product meets USP specifications (Current through USP 24) and is traceable to USP Reference Standard lot M.

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

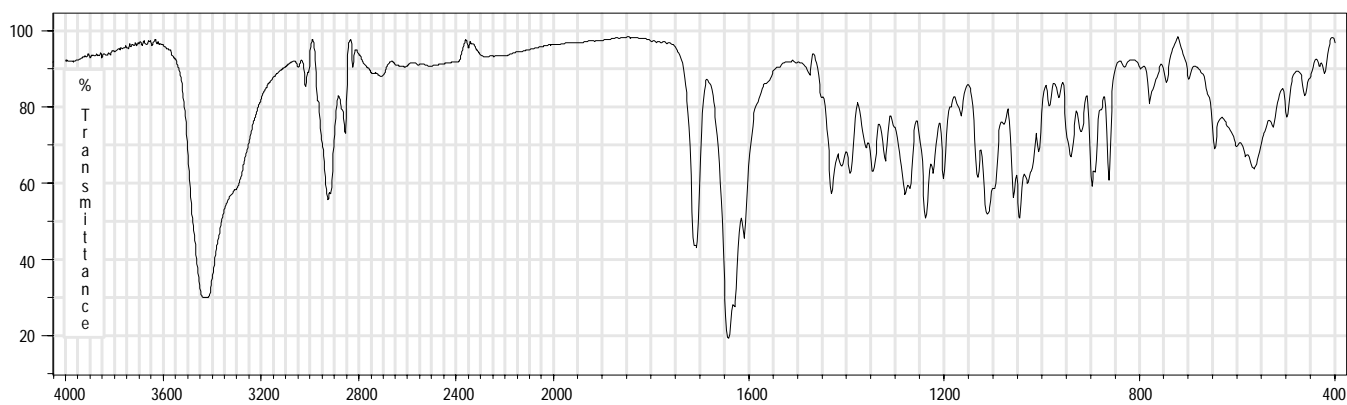
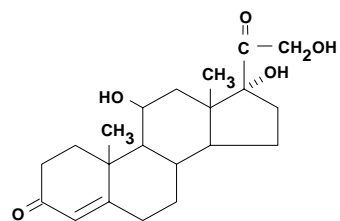
TEST	USP 24 SPECIFICATIONS	Result Sigma R.S. Lot 109H8808
Infrared absorption spectrum Mineral oil dispersion (197M)	compares to standard	conforms to USP RS lot M
Ultraviolet absorption spectrum 10 $\mu$ g/mL in methanol (197U)	absorptivities at 242 nm, calculated on the dried basis, do not differ by more than 2.5%	passes
Specific rotation 10 mg/mL in dioxane (781S)	between + 150° and +156°	+ 152.3°
Loss on drying (731)	not more than 1%	passes
Residue on ignition (281)	negligible, from 100 mg	passes
Chromatographic purity (621)	not more than 0.5% of any individual impurity 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 percent and not more than 102.0 percent, calculated on the dried basis	98.0%

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

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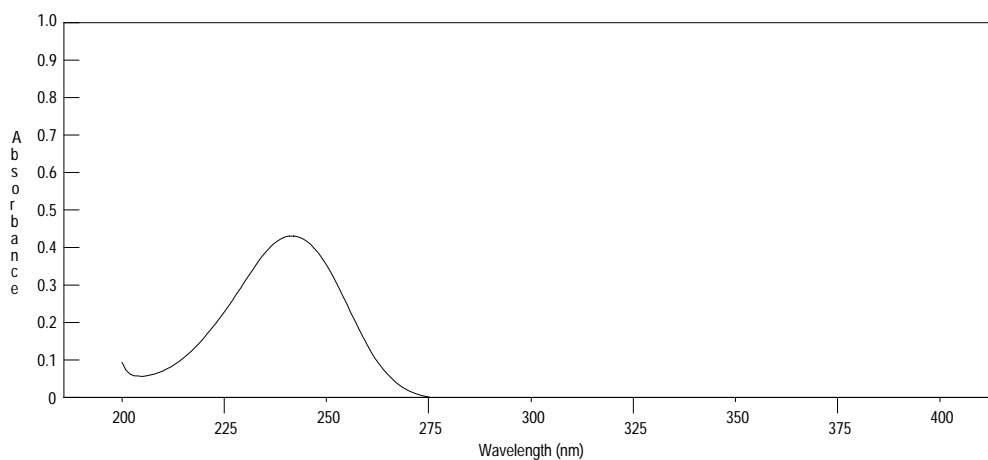
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Lot 109H8808



INFRARED SPECTRUM

Mineral oil dispersion  
Wavenumbers (cm<sup>-1</sup>)



ULTRAVIOLET SPECTRUM

10.01 µg/mL in Methanol

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.