

Product Information

ERGOCALCIFEROL SIGMA REFERENCE STANDARD

 Product No. **E1007**

Lot No: 016K8805

CAS No: 50-14-6

Storage Temperature: 8° - 15° or in refrigerator

 Synonyms: 9,10-Secoergosta-5,7,10(19),22-tetraen-3-ol, (3 β ,5Z,7E,22E)-.

 Formula: C₂₈H₄₄O

Formula Weight: 396.66

Product Description

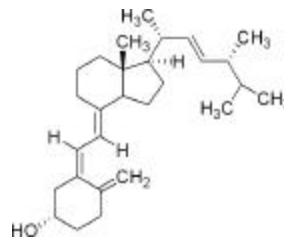
This product meets USP specifications (Current through USP 28, 1st Supplement), and is traceable to USP Reference Standard lot P0B275

Store sealed vial in a cold place, protected from light. Allow to attain room temperature before opening ampule. Use the material promptly and discard the unused portion.

TEST	USP 28 SPECIFICATIONS	Result Sigma R.S. Lot 016K8805
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot P0B275
Ultraviolet absorption 10 μ g/mL in alcohol solution (197U)	compares to standard and absorptivities at 265 nm do not differ by more than 3.0%	compares
Identification C	a bright red color is produced and rapidly changes through violet and blue to green	passes
Identification D Thin layer chromatography (621)	compares to standard	passes
Melting range, °C Class 1b (741)	between 115° and 119°	117-119°
Specific rotation, $[\alpha]_D^{25}$ 15 mg/mL in alcohol (781S)	between +103° and +106°	+105°
Reducing substances	absorbance at 525 nm is not greater than that obtained with hydroquinone, similarly treated	passes
Organic volatile impurities Method V(467)	meets requirements	Meets requirement
Assay - HPLC (621)	not less than 97.0 percent and not more than 103.0 percent	102.8%

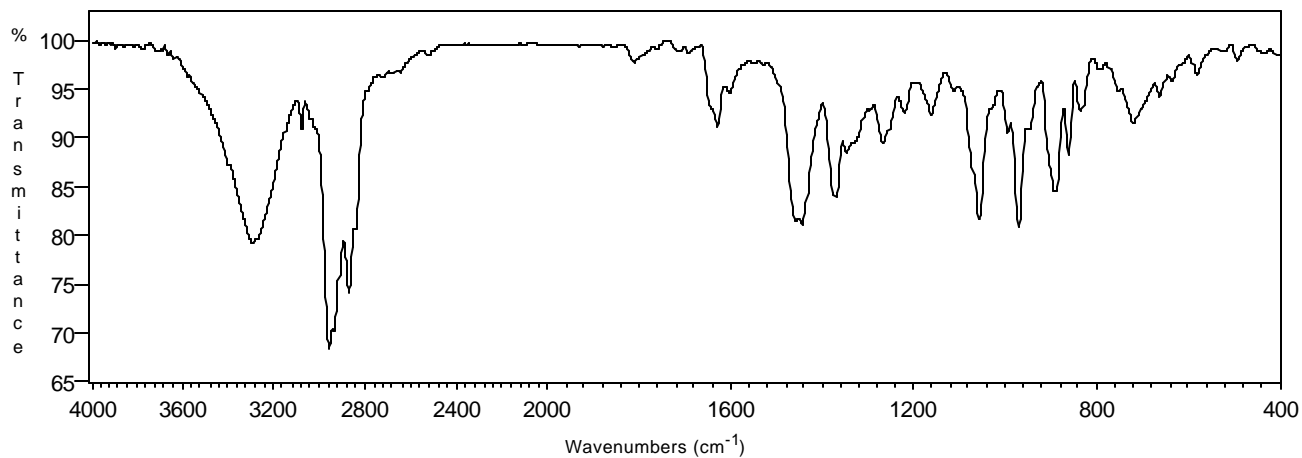
See reverse side for IR and UV spectrum of Sigma Reference Standard.

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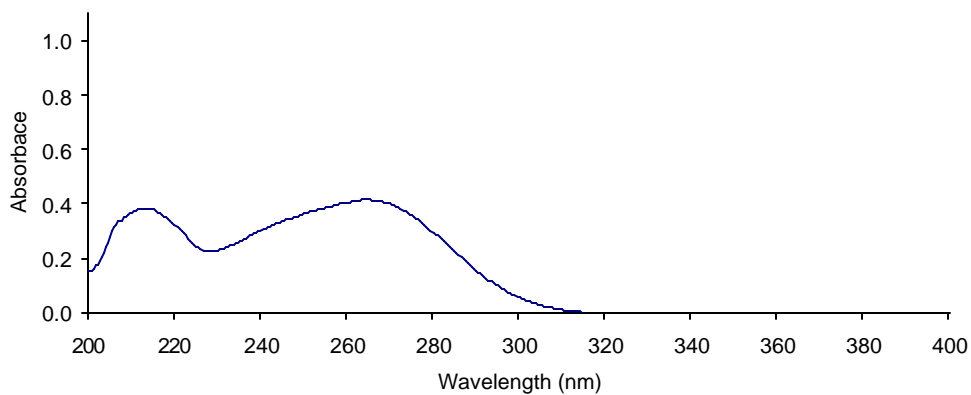
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

9.20 µg/mL in alcohol



2/2006

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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.