



3050 Spruce Street
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

ERGOCALCIFEROL SIGMA REFERENCE STANDARD

Product No. **E1007**

Lot No: 79H8806

Storage Temperature: 8° - 15° or in refrigerator

Formula: C₂₈H₄₄O

Formula Weight: 396.66

CAS No: 50-14-6

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

Product Description

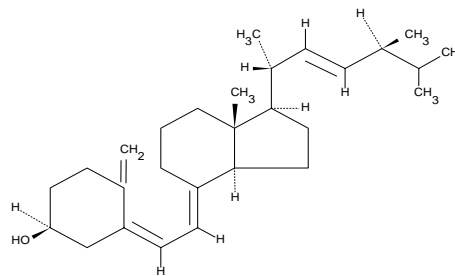
This product meets USP specifications (Current through USP 23, 10th Supplement), and is traceable to USP Reference Standard lot O

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 23 SPECIFICATIONS	Result Sigma R.S. Lot 79H8806
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot O
Ultraviolet absorption 10 µg/mL in alcohol solution (197U)	compares to standard and absorptivities at 265 nm do not differ by more than 3.0%	passes
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°	115°-117°
Specific rotation, [α] _D ²⁵ 15 mg/mL in alcohol (781S)	between +103° and +106°	+104°
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	passes
Assay - HPLC (621)	not less than 97.0 percent and not more than 103.0 percent	100.3%

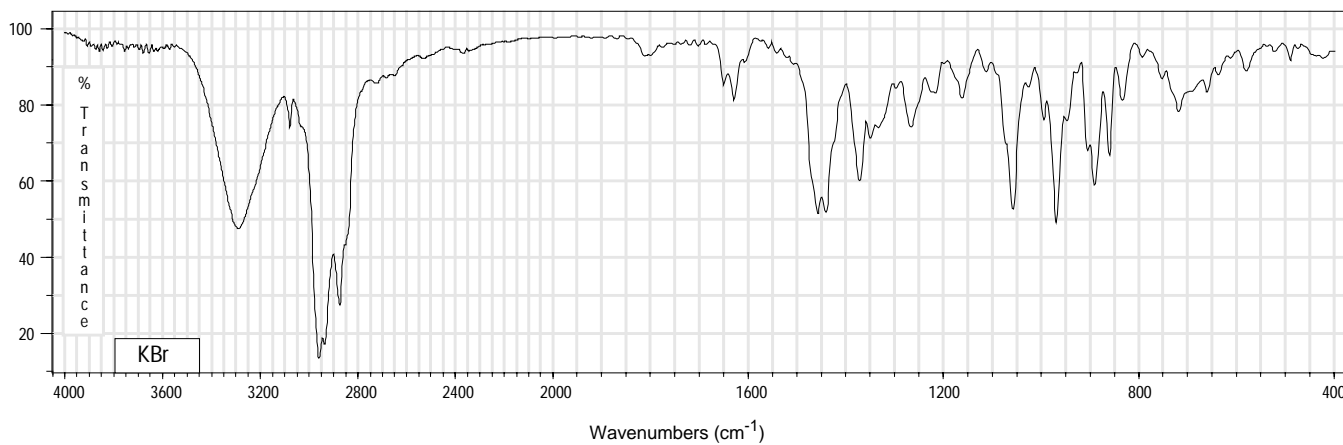
See reverse side for IR and UV spectrum of Sigma Reference Standard.

ERGOCALCIFEROL
SIGMA REFERENCE STANDARD
Product No. **E1007**
Lot 79H8806



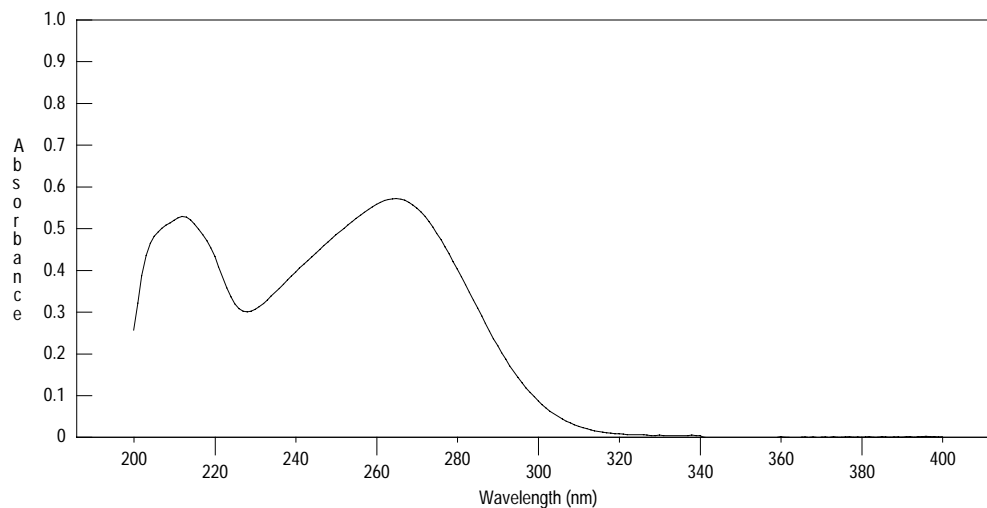
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

12.08 µg/mL in alcohol



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.