



SIGMA-ALDRICH

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Product Information

CHOLECALCIFEROL SIGMA REFERENCE STANDARD

Product No. **C9774**

Lot No: 24K8801

Storage Temperature: $\leq 8^{\circ}\text{C}$

Formula: $\text{C}_{27}\text{H}_{44}\text{O}$

Formula Weight: 384.65

CAS No: 67-97-0

Synonyms: 9,10-Secocholesta-5,7,10(19)-trien-3-ol,
(3 β ,5Z,7E)-.

Product Description

This product meets USP specifications (Current through USP 27, 1st Supplement), and is traceable to USP Reference Standard lot M0B157

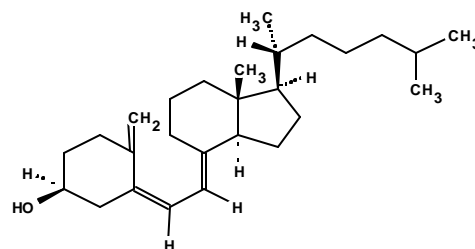
Ampule sealed under argon. Protect from light. Store sealed ampule at $\leq 8^{\circ}\text{C}$. Bring ampule to room temperature before opening and use promptly. Do not dry. Discard unused material.

TEST	USP 27 SPECIFICATIONS	Result Sigma R.S. Lot 24K8801
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	Conforms to USP standard Lot M0B157
Ultraviolet absorption spectrum 10 $\mu\text{g}/\text{mL}$ in alcohol (197U)	absorptivities at 265 nm differ by not more than 3.0%	Passes
Identification test C Color test	bright red color is produced and rapidly changes through violet and blue to green	
Identification test D Thin-layer chromatography (621)	compares to standard	
Organic Volatile Impurities Method IV (467)	meets the requirements	
Specific rotation, $[\alpha]_D^{25}$ 5 mg/ml solution in alcohol (781S)	between $+ 105^{\circ}$ and $+ 112^{\circ}$	
Assay — high pressure liquid chromatography (621)	not less than 97.0% and not more than 103.0%	

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

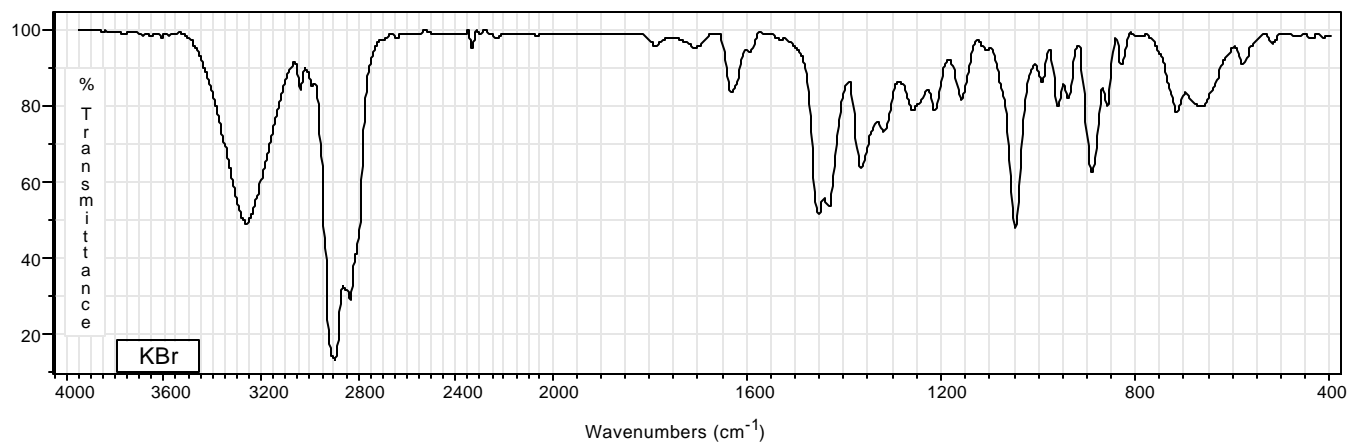
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Lot 24K8801



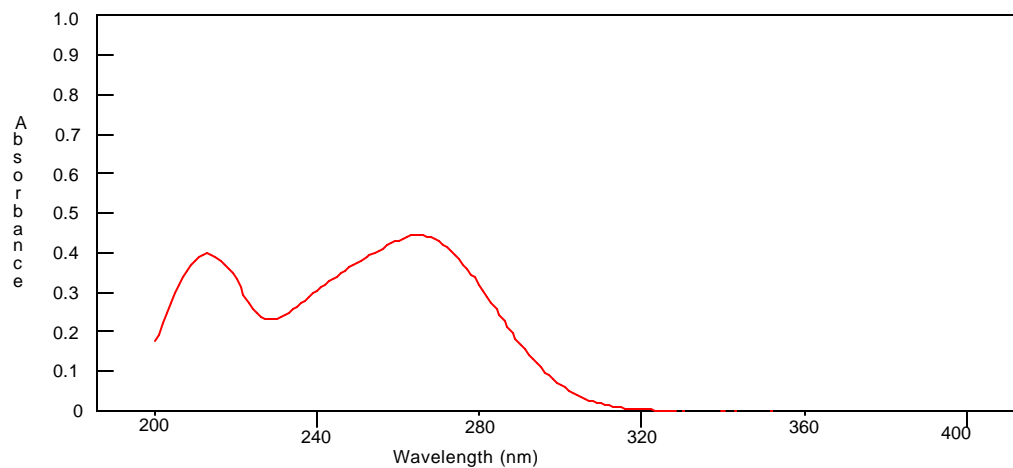
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

11.20 µg/mL in alcohol



3/04

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.
This product is not for in Vitro Diagnostic Procedures.