



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-205630
Lot Number: SAMPLE
Product Name: Cholecalciferol
CAS Number: 67-97-0
Molecular Formula: $C_{27}H_{44}O$
Molecular Weight: 384.64
Native Source: Synthetic

Test	Specification	Result
Appearance	White to off white crystalline powder	White crystalline powder
Identification (Infrared Spectrum)	Consistent with standard reference	Complies
Purity (HPLC)	$\geq 98\%$	99.3%
Melting Point	82 - 87 °C	84 - 85 °C
Solubility	Soluble in 100% ethanol, trimethyl pentane, fatty oils or acetone; insoluble in water	Complies
Optical Rotation ($\alpha_{20/D}$)	$+108.5^\circ \pm 3.5^\circ$	$+107.3^\circ$
UV Absorption	0.46 - 0.50	0.48
7-Dehydrocholesterol	$< 0.2\%$	0.005%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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