

Certificate of Analysis

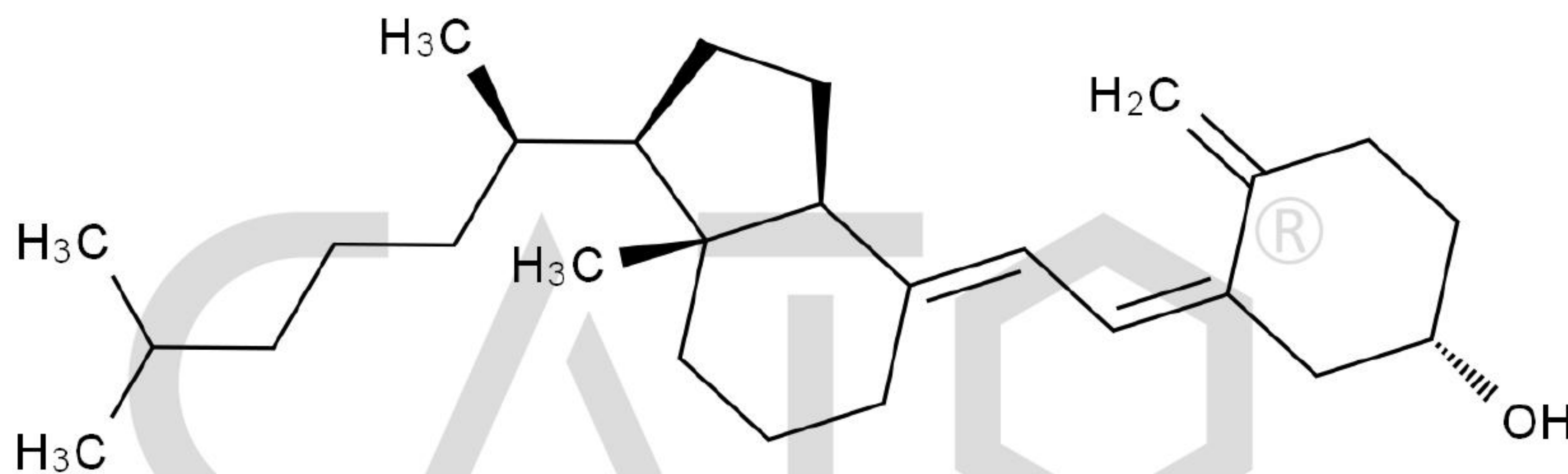
Reference Material & Standard

Product Name:	Vitamin D3	Catalogue Number:	CCHM700651
Synonyms:	N/A	Lot Number:	0725-RH-0023
CAS Number:	67-97-0	Expiry Date:	Jul 27, 2028
Molecular Formula:	C ₂₇ H ₄₄ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	384.64	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.4003%
Assay		99.6%
Uncertainty		±0.2%

Comment:

- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

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Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 28, 2026

Date: Jul 29, 2026

Date: Jul 29, 2026

