

Certificate of Analysis

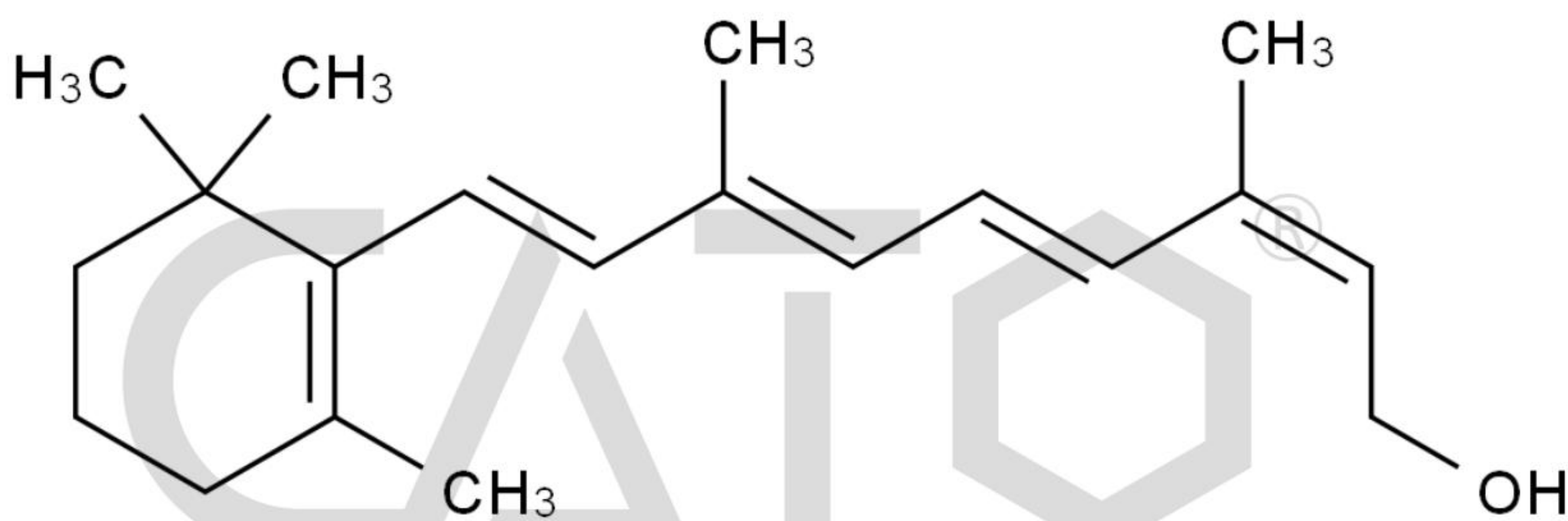
Reference Material & Standard

Product Name:	13-cis-Retinol	Catalogue Number:	CCHM701247
Synonyms:	N/A	Lot Number:	0312-RH-0089
CAS Number:	2052-63-3	Expiry Date:	Feb 17, 2027
Molecular Formula:	C ₂₀ H ₃₀ O	Storage:	-80°C±5°C Protected from light and Sealed
Molecular Weight:	286.45	Shipping Condition:	Shipping with Dry Ice

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow to Light Orange Semi Solid
Identification	LCMS&HNMR	Confirmed
Purity	NMR	95.0%
Uncertainty		±1.0%

Comment:

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:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Mar 17, 2026

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