

Certificate of Analysis

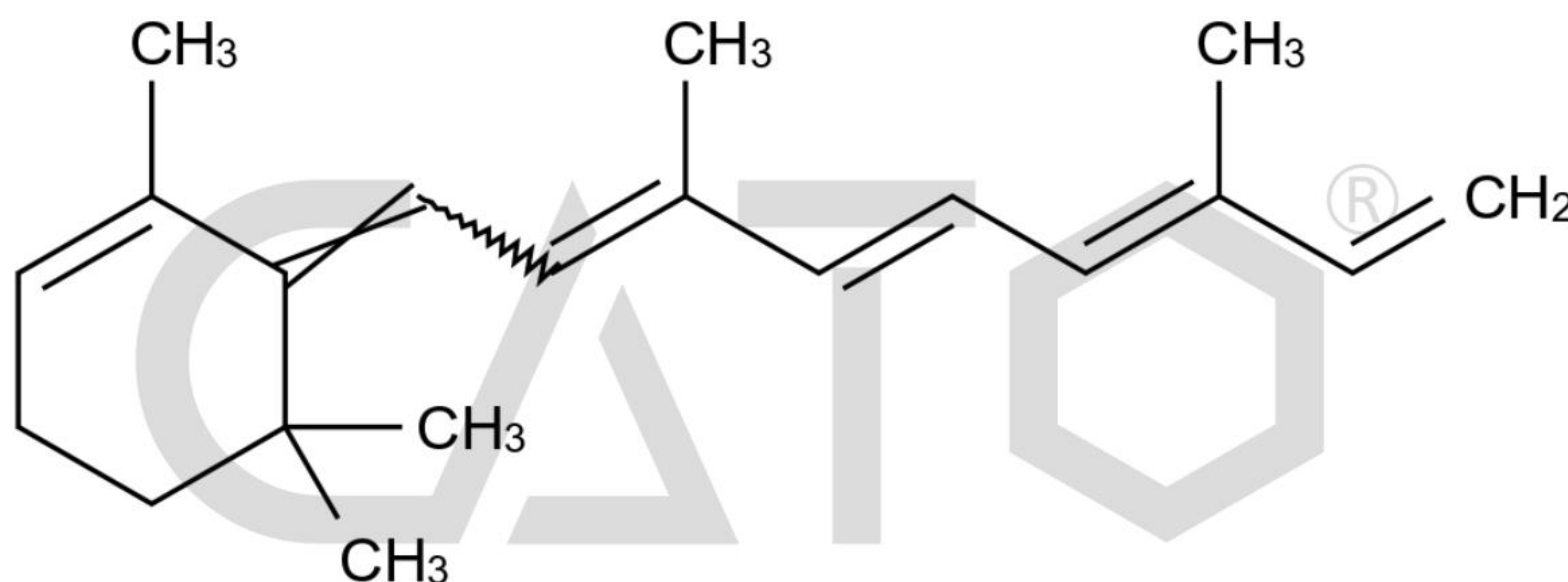
Reference Material & Standard

Product Name:	Vitamin A Impurity B(Mixture of E/Z Isomers)	Catalogue Number:	C1305354
Synonyms:	N/A	Lot Number:	1226-RG-0125
CAS Number:	N/A	Expiry Date:	Jan 23, 2026
Molecular Formula:	C ₂₀ H ₂₈	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	268.44	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Semi-solid
Identification	HRMS&IR&HNMR	Confirmed
Purity	HPLC	81.2493%
Water Content	Karl Fischer	0.20%
Residual Solvents	NMR	1.7% n-hexane and 0.3% ethyl acetate
Assay		79.5%

Comment:

1. The compound is unstable and easily self-polymerizes. Due to the stability issue, this item can only be used for qualitative applications, not for quantitative purposes. It should be stored as the storage condition stated in COA, and to be used immediately upon received.

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

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Dec 30, 2025

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