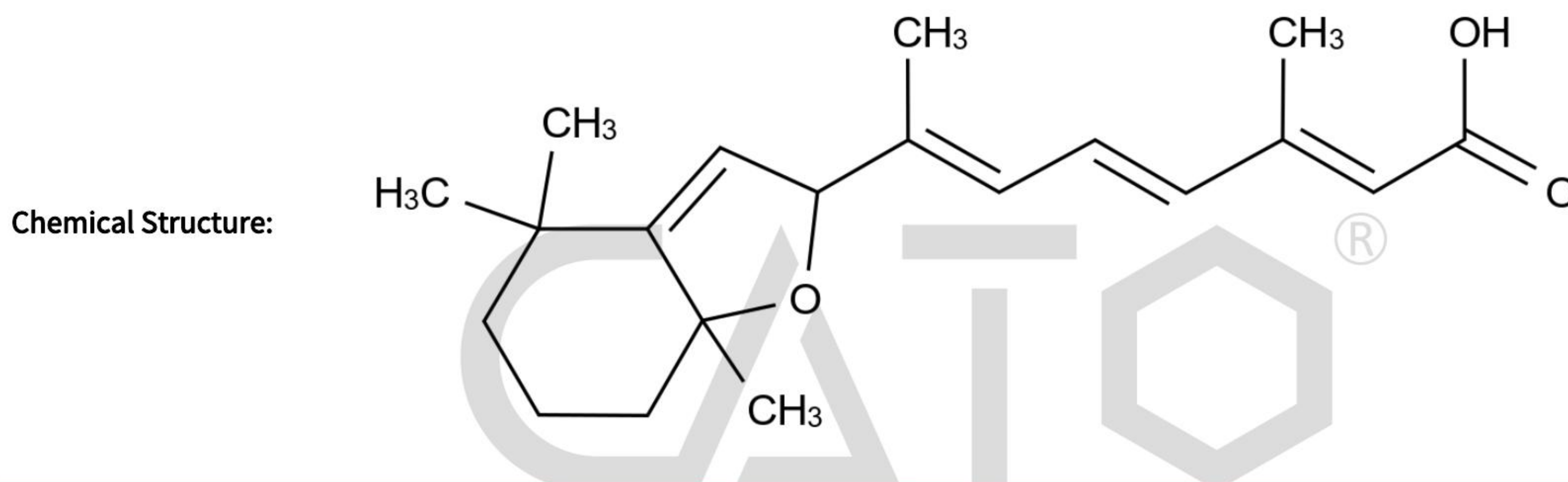


Certificate of Analysis

Reference Material & Standard

Product Name:	5,8-Epoxy-all-trans-Retinoic Acid(Mixture of Diastereomers)	Catalogue Number:	C4X-19696
Synonyms:	N/A	Lot Number:	0731-RF-0016
CAS Number:	3012-76-8	Expiry Date:	Oct 08, 2025
Molecular Formula:	C ₂₀ H ₂₈ O ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	316.43		



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.9399%
Water Content	Karl Fischer	0.10%
Residual Solvents	NMR	0.1% diethyl ether and 0.2% n-hexane
Assay		99.5%

Comment:

The calculation of the 100% 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:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 05, 2024

Date: Aug 05, 2024

Date: Aug 05, 2024

