

Certificate of Analysis

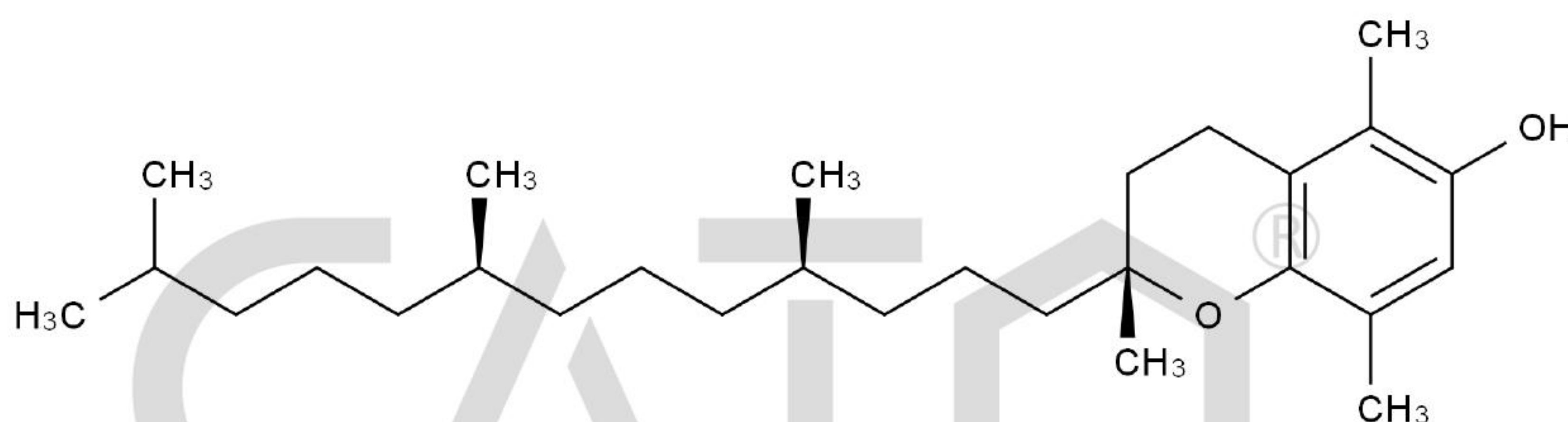
Reference Material & Standard

Product Name:	β-Tocopherol	Catalogue Number:	CCPE901347
Synonyms:	N/A	Lot Number:	1031-RG-0076
CAS Number:	16698-35-4	Expiry Date:	Nov 03, 2029
Molecular Formula:	C ₂₈ H ₄₈ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	416.68		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Sticky Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.000%
Loss On Drying	TGA	1.0620%
Assay		98.9%
Uncertainty		±0.2%

Comment:

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

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

Loss On Drying is considered as absolute effect, GC 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: Nov 04, 2025

Date: Nov 04, 2025

Date: Nov 04, 2025

