CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

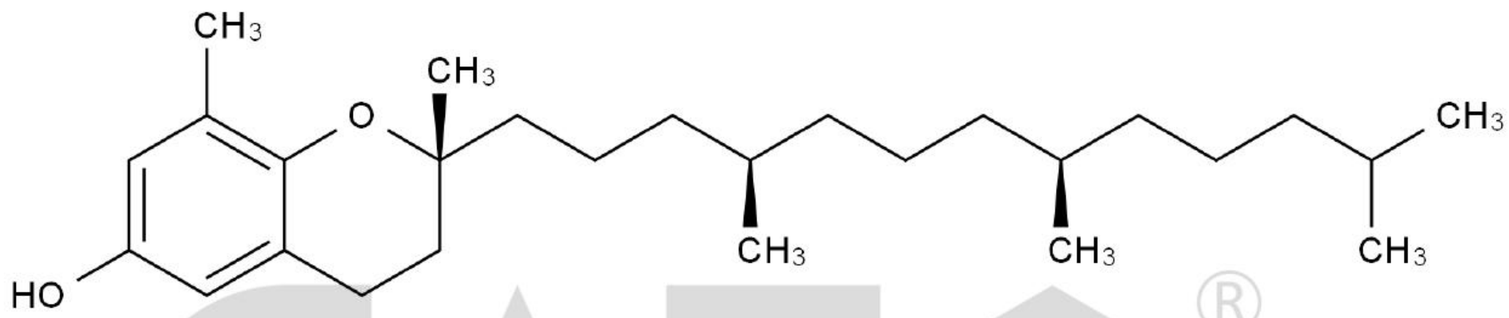
No.: 202509220066

Certificate of Analysis

Reference Material & Standard

Product Name:	(+)-Δ-Tocopherol	**Catalogue Number:**	CCFD200325
Synonyms:	N/A	**Lot Number:**	0517-RE-0002
CAS Number:	119-13-1	**Expiry Date:**	Sep 21, 2029
Molecular Formula:	$C_{27}H_{46}O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	402.65		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Oil
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.246%
Loss On Drying	TGA	0.1501%
Assay		99.1%
Uncertainty		±0.3%

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Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss On Drying) * Purity HPLC (%) /100%*
Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.
2. 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 Date: Sep 22, 2025

Reviewed by: Hinlam Date: Sep 22, 2025

Approved by General Manager: David Date: Sep 22, 2025

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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