

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Vitamin E (dl-alpha tocopherol)
INCI Name: Dl-alpha tocopherol
CAS Number: 10191-41-0
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 24 months from production date

Property	Specification	Analysis
Appearance (Visual)	Slightly yellow to amber, clear, viscous oil	Conforms
Identification (E307/JECFA/GB)	Conforms	Conforms
Chromaticity (ASTM)	≤4.0	2.5
Refractive Index (E307/JECFA/GB)	1.503 ~ 1.507	1.506
Specific Absorption (E307/JECFA/GB)	72 - 76	74
Acidity (USP/FCC/JECFA/GB)	≤1.0 mL	0.02 mL
Related Substances Impurity A (EP)	≤0.5%	<0.10%
Related Substances Impurity B (EP)	≤1.5%	0.15%
Related Substances Sum of Impurity C and D (EP)	≤1.0%	<0.10%
Related Substances Any other impurities (EP)	≤0.25%	0.18%
Related Substances Total impurities (EP)	≤2.5%	0.33%

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

Assay (GC) (EP/USP)	96.0 ~ 102.0%	100.4%
Residue on Ignition (E30/JECFA/GB)	≤0.1%	0.02%
Arsenic (ChP)	≤1 ppm	Certified
Lead (E307/JECFA/FCC/GB)	≤2 mg/kg	<0.5 mg/kg
Residual Solvent Diethyl carbonate	≤5000 ppm	Certified
Molds & Yeasts Count (GB 4789.15)	≤100 cfu/g	Certified
Aerobic Plate Count (GB 4789.2)	≤1000 cfu/g	Certified
Coliforms (GB 4789.3)	<3.0 MPN/g	Certified
Salmonella (GB 4789.4)	n.d./25g	Certified
Escherichia coli (GB 4789.38)	<10 cfu/g	Certified
Staphylococcus aureus (GB 4789.10)	n.d./25g	Certified

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

All data are as per our supplier.

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