

CERTIFICATE OF ANALYSIS

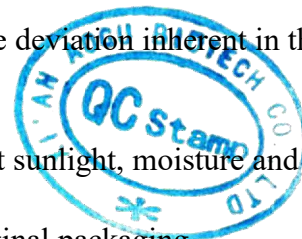
Product Name:	Vitamin E (dl-alpha tocopherol)		
INCI Name:	Dl-alpha tocopherol		
CAS Number:	59-02-9		
Batch Number	20221025	Manufacture Date	20221025
Expiration Date:	24 months from production date		

Property	Specification	Analysis
Appearance (Visual)	Slightly yellow to amber, clear, viscous oil	Conform
Identification (E307/JECFA/GB)	Conform	Conform
Chromaticity (ASTM)	≤4.0	2.5
Refractive Index (E307/JECFA/GB)	1.503~1.507	1.506
Specific Absorption (E307/JECFA/GB)	72~76	72
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%	0.09%
Related Substances Sum of Impurity C and D (EP)	≤1.0%	<0.10%
Related Substances Any other impurity (EP)	≤0.25%	0.21%
Related Substances Total impurities (EP)	≤2.5%	0.50%

Assay GC (EP/USP)	96.0~102.0%	99.4%
Residue on Ignition (E307/JECFA/GB)	≤0.1%	0.01%
Arsenic (ChP)	≤1 ppm	Certified
Lead (E307/JECFA/FCC/GB)	≤2 mg/kg	<0.5 mg/kg
Residual Solvent Diethyl carbonate (In house)	≤5000 ppm	Certified
Mold and Yeast 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

The above data were 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.



Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

