



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (Vitamin E-Oil (α -Tocopherol))

Issue Date: 22 FEB 2026 Quality Release Date: 22 FEB 2026

Product Name

Vitamin E-Oil (α -Tocopherol) 维生素 E 油 (α -生育酚)

Product Information

Product Number VEO-20260222
Batch Number VEO-SH2026022201
Brand SIGALD
CAS Number 1406-66-2 (α -Tocopherol)
MDL Number MFCD00004077
Formula $C_{29}H_{50}O_2$
Formula Weight 430.71 g/mol
Form Pale yellow to amber clear viscous liquid

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color/Form)	Pale yellow to amber clear viscous liquid, no sediment	Conforms	-	Visual Inspection (25°C)
Assay (α -Tocopherol)	$\geq 96.0\%$	98.2%	%	High Performance Liquid Chromatography (HPLC)
Acid Value (mg KOH/g)	≤ 2.0	0.8	mg KOH/g	Titration Method
Peroxide Value (meq/kg)	≤ 10.0	3.5	meq/kg	Iodometric Titration
Refractive Index (25°C)	1.494 ~ 1.498	1.496	-	Abbe Refractometer
Specific Gravity (25/25°C)	0.945 ~ 0.955	0.951	-	Hydrometer Method
Heavy Metals (Pb)	≤ 5 ppm	0.6 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Heavy Metals (Hg)	≤ 0.1 ppm	<0.05 ppm	ppm	Cold Vapor Atomic Absorption Spectrometry
Residue on Ignition	$\leq 0.1\%$	0.03%	%	550°C Ignition Method
Solubility	Miscible with ethanol, ether, vegetable oil; insoluble in water	Conforms	-	Solubility Test
Total Bacterial Count	≤ 100 CFU/g	18 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Staphylococcus aureus	Negative	Negative	-	Microbiological Detection

Certification

This batch of product has been tested in accordance with food, cosmetic and pharmaceutical grade industrial standards for Vitamin E-Oil (α -Tocopherol) and meets all specified requirements. It is qualified for use in food additives, cosmetic raw materials and pharmaceutical excipients fields.