



大连汉德姆精细化学品有限公司

DALIAN HANDOM CHEMICALS CO.,LTD.

Certificate of Analysis

Product Name: D-Alpha Tocopherol 1000IU

Country of Origin: China

Batch No.: HDC20221129001

Quantity: 820.00kg

Manufacturing Date: Nov 29th, 2022

Retest Date: Nov 28th, 2024

Test Items	Test Methods	Specifications	Test Results	
Physical & Chemical Data				
Appearance	Visual	Clear oily liquid	Conforms	
Color	Visual	Yellow to brownish red	Conforms	
Odor	Organoleptic	Nearly odorless	Conforms	
Analytical Quality				
Identification	Chemical Reaction	Color Reaction	Positive	Conforms
	GC	GC	Corresponds to RS	Conforms
Acidity	Titration	≤1.0ml	0.02ml	
Optical Rotation[α] _{D25}	USP<781>	≥+24°	+24.8°	
Assay	D-Alpha Tocopherol	GC	≥67.11% ≥1000 IU/g	67.41% 1004 IU/g
Residue on Ignition	USP<281>	≤0.1%	Conforms	
Specific Gravity(25°C)	USP<841>	0.92g/cm ³ ~0.96g/cm ³	Conforms	
Contaminants				
Lead(Pb)	GF-AAS	≤1.0ppm	Conforms	
Arsenic(As)	HG-AAS	≤1.0ppm	Conforms	
Cadmium(Cd)	GF-AAS	≤1.0ppm	Conforms	
Mercury(Hg)	HG-AAS	≤0.1ppm	Conforms	
B(a)p	HPLC	≤2.0ppb	Conforms	
PAH ₄	GC-MS	≤10.0ppb	Conforms	
Microbiological				
Total Aerobic Microbial Count	USP<2021>	≤1000CFU/g	Conforms	
Total Yeasts and Molds Count	USP<2021>	≤100CFU/g	Conforms	
Escherichia coli	USP<2022>	Negative/10g	Conforms	

Conclusion: This batch of product is complied with the In-house standard, European regulations and current USP standards.

Shelf Life: The product may be stored for 24 months if kept in the unopened original containers at room temperature.

Packaging & Storage: 20kg per steel drum.(Food Grade)

It should be stored in tightly closed containers at room temperature, and protected from heat, light, moisture and oxygen.