



Xi'an Green Spring Technology Co.,Ltd

Certificate of Analysis

Product name	DL Alpha Tocopherol		
Specification	1430IU	Manufacture Date	12-25-2023
Batch No.	RW20231225	Report Date	12-26-2023
Quantity	245kgs	Expiry Date	12-24-2025
Items	Specifications	Results	Method
Appearance	White powder	Conforms	Visual
Odor	Nearly odorless	Conforms	Organoleptic
Analytical Quality			
Identification			
Chemical Reaction	Positive	Conforms	Color Reaction
GC	Corresponds to RS	Conforms	GC
Acidity	≤1.0ml	0.02ml	Titration
Optical Rotation[a] _D	≥+24°	+25.8°	USP<781>
Assay	≥95.97%	97.00%	GC
D-alpha Tocopherol	≥1430IU	1445IU	
Residue on Ignition	≤0.1%	Certified	USP<281>
Specific Gravity (25C)	0.92g/cm ³ -0.96g/cm ³	Certified	USP<841>
Contaminants			
Pb	≤1.0ppm	Certified	GF-AAS
As	≤1.0ppm	Certified	HG-ASS
Cd	≤1.0ppm	Certified	GF-AAS
Hg	≤0.1ppm	Certified	HG-ASS
B(a)p	≤2.0ppb	Certified	HPLC
PAH ₄	≤10.0ppb	Certified	GC-MS
Microbiological			
Total Aerobic Microbial	≤1000cfu/g	Certified	USP<2021>
Total Yeasts & Molds	≤100cfu/g	Certified	USP<2021>
E.coil	Negative/10g	Certified	USP<2022>
Conclusion	Conform to European regulations and current USP standards.		
Shelf Life	The product may be stored for 24 months in the unopened original container at room.		
Packaging and Storage	20kg steel drum. It shall be stored in tightly closed containers at room temperature, and protected from heat, light, moisture and oxygen.		

Quality Assurance

