

CERTIFICATE OF ANALYSIS

Product Name	Mixed Tocopherols		
Specification	50%		
Quantity	300kg		
Batch Number	20220422	Manufacture Date	20220422
Report Date	20220422	Expiry Date	20240421

Item of Analysis	Specification	Results	Test Methods
Physical & Chemical Data			
Color	Pale yellow to brownish red	Conforms	Visual
Odor	Nearly odorless	Conforms	Organoleptic
Appearance	Clear oily liquid	Conforms	Visual
Analytical Quality			
Identification			
Chemical Reaction	Positive	Conforms	Color Reaction
GC	Corresponds to RS	Conforms	GC
Acidity	≤1.0ml	0.07ml	Titration
Optical Rotation	≥+20°	+21.3°	USP<781>
Assay			
Total tocopherols	≥50.0%	50.74%	GC
D-alpha tocopherol	< 20.0%	16.044%	GC
D-beta tocopherol	< 10.0%	2.14%	GC
D-gamma tocopherol	50.0~70.0%	57.30%	GC
D-delta tocopherol	10.0~30.0%	24.52%	GC
The percentage of d-(beta+gamma+delta) tocopherols	≥80.0%	83.96%	GC
Residue on Ignition	≤0.1%	Certified	USP<281>
Specific Gravity(25°C)	0.92g/cm ³ - 0.96g/cm ³	Certified	USP<841>
Contaminants			
Lead	≤1.0ppm	Certified	GF-AAS
Arsenic	≤1.0ppm	Certified	HG-AAS
Cadmium	≤1.0ppm	Certified	GF-AAS
Mercury	≤0.1ppm	Certified	HG-AAS
B(a)p	≤2.0ppb	Certified	HPLC
PAH ₄	≤10.0ppb	Certified	GC-MS
Microbiological			

XI'AN AOGU BIOTECH CO.,LTD

WhatsApp | +86 18091843361

Tel number | 0086-29-89121514

Web | www.aogubio.com

Email | info@imaherb.com

Address | Rm 606, B3, Jinye Times, Jinye Road, Yanta District, Xi'an China 710065



Total Aerobic Microbial	≤ 1000 cfu/g	Certified	USP<2021>
Total Yeasts and Molds	≤ 100 cfu/g	Certified	USP<2021>
E. coli	Negative/10g	Certified	USP<2022>

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.

