

## VegeToc<sup>®</sup> Natural Vitmin E Certificate of Analysis

Product Name:	D-alpha Tocopheryl Acid Succinate	Batch No.:	VS1210250202
Specification:	VS1210, 1210IU	Quantity:	2500kg
Manufacture Date:	6-Feb-2025	Expiry Date:	5-Feb-2028

TEST ITEMS	SPECIFICATIONS	TEST RESULTS	TEST METHODS
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**Physical & Chemical Data**

Color	White to almost white	Conforms	Visual
Odor	Nearly odorless	Conforms	Organoleptic
Appearance	Powder or Granular	Conforms	Visual

**Analytical Quality**
**Identification**

Chemical Reaction	Positive	Conforms	Color Reaction
GC	Corresponds to RS	Conforms	GC
Acidity	18.0- 19.3mL	18.30mL	Titration
Optical Rotation[α] <sub>D</sub> <sup>25</sup>	≥ +24°	+24.8 °	USP<781>
Bulk Density	0.20g/cm <sup>3</sup> - 0.60g/cm <sup>3</sup>	0.51g/cm <sup>3</sup>	USP<616>

**Particle Size**

Residue on 20 meshes	≤ 1%	0.33%	USP<786>
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**Assay**

D-alpha tocopheryl acid succinate	96.0- 102.0%	97.20%	GC
	1161- 1234 IU/g	1176 IU/g	
*Melting Point	73°C- 78°C	Certified	USP<741>

**\*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 <sub>4</sub>	≤ 10.0ppb	Certified	GC-MS

**\*Microbiological**

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

Remark: "\*" Performs the tests once a year.

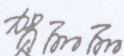
"Certified" indicates that data are obtained by statistically-designed sampling audits.

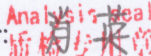
Conclusion: Conform to the In-house standard, European regulations and current USP standards.


Shelf Life: The product may be stored for 36 months in the unopened original container at room temperature.

Packing & Storage: 25kg fibre drum (food grade).

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

Analyst: 

Supervisor: 

Authorizer: 

Date: 08-02-2025

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