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CERTIFICATE OF ANALYSIS

ARTIKAMART 309, Basement, Sector 21C, Faridabad, Haryana 121001, INDIA	**COA NUMBER :** 525316 **PRODUCT CODE :** 50731401 **MFG DATE :** 15/10/2025 **EXP DATE :** 15/10/2027

1) Identification of the substance or mixture and of the supplier

Trade name : Vitamin E Acetate Pharma
25KG Plastic drums
Purchase order/Customer material
ve25 fmc
Country of Origin : India
Product use : Cosmetic grade, Domestic and Industrial use

2) COMPANY : ART VATIKA INSTITUTE

Contact Person: Mr. Harsh Aggarwal (For commercial and technical detail)
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Emergency telephone: In case of chemical emergency involving transportation spills, leaks, fires or accidents.

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Test Parameter	Requirements	UoM	Results
Assay all-rac-alpha-tocopheryl acetat (GC) (PhEur)	Min.: 98.0 Max.: 102.0	g/100g	98.7
Assay all-rac-alpha-tocopherylacet-at (GC) (USP)	Min.: 98.0 Max.: 102.0	g/100g	99.0
Assay DL-alpha-Tocopherol acetate (LC) (JP)	Min.: 96.0 Max.: 102.0	g/100g	98.1
Assay Vitamin E (GC) (ChP)	Min.: 96.0 Max.: 102.0	g/100g	98.8
Vitamin E activity (calc.)** (USP)	Min.: 980 Max.: 1020	I.U./g	990
Vitamin E activity calc. as mg/g RRR-alpha-Tocopherol**			450
Appearance	viscous, light yellow oil		conforms
Identification (optical rotation) (Ph.Eur.)	must conform (-0,01° - +0,01°)		conforms
Identification (optical rotation)* (USP)	must conform (-0,01°-+0,01°)		conforms

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Test Parameter	Requirements	UoM	Results
Identification (IR) (JP)	must conform		conforms
Identification (HNO3, color)	must conform (red to orange)		conforms
Identification (IR) (JSSFA)	must conform		conforms
Identification IR (ChP)	must conform		conforms
Identification (GC)	must conform		conforms
Related substances (Impurity A)	Max.: 0.5	Area-%	<0.1
Related substances (Impurity B)	Max.: 1.5	Area-%	0.2
Related substances (Impurity C)	Max.: 0.5	Area-%	<0.1
Related substances (sum of impurity D and E)	Max.: 1.0	Area-%	0.2
Related substances (any other impurity)	any other impurity max. 0.25 area-%		conforms

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Test Parameter	Requirements	UoM	Results
Related substances (total impurities)	Max.: 2.5	Area-%	0.6
Related Substances: alpha-Tocopherol	Max.: 1.0	Area-%	<0.1
Related Substances: other single impurities	max. 1,5 area-% each		conforms
Related Substances: sum of all peaks (excluding the principal peak)	Max.: 2.5	Area-%	0.6
Purity: alpha-tocopherol (TLC)	must conform		conforms
Purity: Clarity and color of solution	clear and not more colored than control solution		conforms
Absorbance E(1%/1cm) (Max. at 284 nm in ethanol)	Min.: 41.0 Max.: 45.0		43.6
Refractive index n(20/D)	Min.: 1.494 Max.: 1.498		1.497
Relative density d(20/20)	Min.: 0.952 Max.: 0.966		0.959

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Test Parameter	Requirements	UoM	Results
Acidity	must conform (max. 0.5ml of 0.10 N NaOH)		conforms
Acid value	Max.: 2.0	mg KOH/g	0.1
Sulfated Ash*	must conform (max.0.1 g/100g)		conforms
Heavy metals*	must conform (max.20mg/kg)		conforms
Zinc *	must conform (max. 10mg/kg)		conforms
Lead *	must conform (max.0,5mg/kg)		conforms
Cadmium *	must conform (max.0,5mg/kg)		conforms
Mercury *	must conform (max.0,1mg/kg)		conforms
Arsenic *	must conform (max.1mg/kg)		conforms
Residual solvent * methanol	must conform (max.3000mg/kg)		conforms
Residual solvent * heptane	must conform (max.0,5g/100g)		conforms

* test verified on random samples

** Biological activity and equivalence: 1 mg all-rac-alpha-tocopheryl acetate = 0.455 mg RRR-alpha-tocopherol = 1 IU Vitamin E - e.g., 980 mg/g all-rac-alpha-tocopheryl acetate is equal to 446 mg/g RRR-alpha-tocopherol and 1020 mg/g all-rac-alpha-tocopheryl acetate is equal to 464 mg/g RRR-alpha-tocopherol. The calculated Vitamin E activity (in mg/g RRR-alpha-tocopherol) will be displayed on the CoA. (Please notice, in certain countries/ regions the previous conversion factor may remain: 1 IU Vitamin E = 1 mg all-rac-alpha-tocopheryl acetate = 0.671 mg RRR-alpha-tocopherol).

The product meets the requirements of this specification.

DL-alpha-tocopheryl acetate = all-rac-alpha-tocopheryl acetate
D-alpha-tocopherol = RRR-alpha-tocopherol

The product meets the specifications of following monographs:

"all-rac-alpha-tocopheryl acetate" of Ph.Eur 11.0
"all-rac-alpha-tocopheryl acetate" of JSSFA 9.th.ed.
"Vitamin E" of USP 2024 issue 1
"Tocopheryl Acetate" IP 2022
"Tocopheryl Acetate" JP 18 (english Version)
"Vitamin E" of ChP 2020 (english Version)

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