



Matrix Fine Sciences Pvt. Ltd.

Innovate Sciences Life

CIN : U24233MH2013PTC243185

QCD/SOP/016/F01-00

Product Code : Natural-^e Organic SSO-T70	Product Name : Natural Mixed Tocopherol 70% (Standardized with Organic sunflower oil)
Batch Number : MFS/SO/PNMT70/10/19/137	A.R. Number : FP/19/00732
Manufacturing Date: Oct-2019	Expiry Date: Sep-2022
Product Origin: INDIA	Analysis Date: 14/10/2019

Certificate of Analysis

Parameter	Specification	Method	Result
A. Physical			
Appearance	Yellow to Brownish Red	In house	Conforms
Odour	Mild Vegetable Oil Odour	In house	Conforms
B. Quality Control Data			
Identification A	Bright Red to Orange colour develops	FCC	Conforms
Identification B	Retention time of the third major peak	By GC	Conforms
Assay Tocopherol	≥ 70.00 %	By GC	71.06%
Non Alpha Tocopherol	≥ 56.00 %	By GC	60.28%
Inorganic Impurities-Lead	≤ 0.5 ppm	FCC	Conforms
Acidity (ml 0.1N NaOH/g)	Max. 1.0 ml	FCC	0.3ml
Specific Rotation $[\alpha]_D^{25}$	NLT +20 °	FCC	Conforms
C. Additional Technical Data			
Delta(δ)	10.00 -30.00%	By GC	21.010%
Beta (β)	0.01-5.00%	By GC	1.810%
Gamma (γ)	50.00-70.00%	By GC	62.016%
Alpha(α)	5.00-20.00%	By GC	15.164%
Density (25°C)	0.90 - 0.96	In house	0.945
Colour Gardner (40 °C)	Max. 11.00	In house	9.6
D. Contaminants			
*Residual Solvents	Meets current USP	USP	Conforms
*Heavy Metals	≤ 5.0 ppm	By ICP-MS	Conforms
*Arsenic	≤ 0.2 ppm	By ICP-MS	Conforms
*Mercury	≤ 0.1 ppm	By ICP-MS	Conforms
*Cadmium	≤ 0.2 ppm	By ICP-MS	Conforms
*Pesticide Residues	≤ 0.01 ppm	By LC-MS	Conforms
Sulphated Ash	≤ 0.1 %	In house	Conforms
Benzo(a)pyrene	≤ 2.0 ppb	By HPLC	Conforms
Sum PAH(4)	≤ 10.0 ppb	By HPLC	Conforms
E. Microbial Testing			
*Total Plate Count(cfu/g)	Max. 1000	ISO:4833(Part 1):2013	Absent
*Yeasts & Moulds (cfu/g)	Max. 100	IS:5403 :1999	Absent
*Coliforms(cfu/g)	Max. 10	ISO:4832:2006	Absent
*E. Coli,	Absent in 10g	ISO 6579:2002	Absent
*S. Aureus	Absent in 10g	ISO 6579:2002	Absent
*Pseudomonas	Absent in 10g	ISO 6579:2002	Absent
*Salmonella	Absent in 25g	ISO 6579:2002	Absent
*Enterobacteria	Absent in 25g	ISO 6579:2002	Absent

Note: The product meets current FCC monograph when tested accordingly.

(*) Tested and complies by third party laboratory.

Packing & Storage: STORE AT AMBIENT TEMPRATURE AWAY FROM SUNLIGHT.

Prepared By:
(Officer-QC)

[Signature]
21/11/19

Checked By:
(Executive-QC)

[Signature]
21/11/19

Approved By:
(HOD-QC)

[Signature]
21/11/19



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