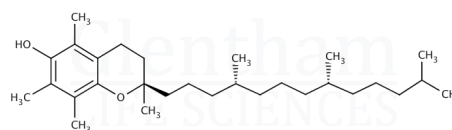


Certificate of Analysis

Product Name	DL-alpha-Tocopherol
Glentham Code	GP5981
CAS Number	10191-41-0
EINECS	233-466-0
MDL Number	MFCD00006848
Additional CAS	2074-53-5
Additional CAS	1406-18-4
PubChem SID	310272467
Batch Number	456HSN



Molecular Weight	430.72
Molecular Formula	C ₂₉ H ₅₀ O ₂
Storage Temp.	+4°C

Property	Specification	Batch 456HSN
Physical Description	Pale yellow to brown, clear viscous liquid	Brown, clear viscous liquid
Identification	According to EP, USP	Conforms
Specific Optical Rotation	-0.01 - +0.01 °	0.00°
Sulphated Ash	≤ 0.1%	≤ 0.1%
Acidity	≤ 1.0ml	≤ 1.0ml
Heavy Metals (as Pb)	≤ 10ppm	≤ 10ppm
Lead (Pb)	≤ 2ppm	≤ 0.5ppm
Arsenic (As)	≤ 1ppm	≤ 1ppm
Cadmium (Cd)	≤ 1ppm	≤ 0.5ppm
Mercury (Hg)	≤ 0.1ppm	≤ 0.1ppm
Zinc (Zn)	≤ 10ppm	≤ 10ppm
Related Substances	Impurity A: ≤ 1.0%	≤ 0.1%
	Impurity B: ≤ 1.5%	0.2
	Impurity C & D: ≤ 1.0%	0.2
	Any Other Impurity: ≤ 0.25%	≤ 0.25%
	Total Impurities: ≤ 2.5%	0.5
Assay	96.0 - 102.0 % (USP)	99.0%
Assay	96.0 - 102.0 % (EP)	98.9%
Pharmacopoeia Specification(s)	EP, USP	Conforms

Specification Version	v1.0
Manufacture Date	2023-05-22
Re-Test Date	2033-02-16

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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