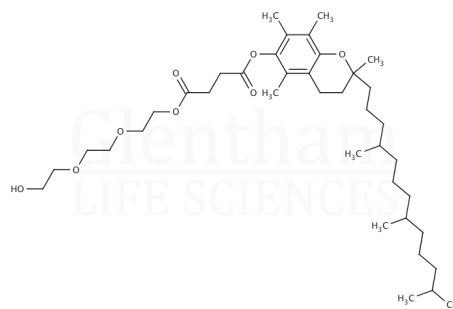


Certificate of Analysis

Product Name	D-alpha-Tocopherol polyethylene glycol 1000 succinate, USP/NF grade
Glenthams Code	GK2110
CAS Number	9002-96-4
MDL Number	MFCD00146616
Batch Number	084LAO

Molecular Weight	-
Molecular Formula	-
Storage Temp.	+20°C



Property	Specification	Batch 084LAO
Physical Description	White to light-brown powder or waxy solid	Light-brown waxy solid
Identification	To pass USP test	Conforms
Specific Optical Rotation	$\geq +24.0^\circ$	Conforms
Solubility (20% in water)	Clear solution	Conforms
Colour (Gardner)	≤ 10	2
Heavy Metals	$\leq 10\text{ppm}$	Conforms
Acid Value	$\leq 0.027\text{meq/g}$	Conforms
Free Tocopherol	$\leq 1.5\%$	0.40%
D-Alpha Tocopherol	$\geq 250\text{mg/g}$	269mg/g
Pharmacopoeia Specification(s)	USP, NF	Conforms

Specification Version	v1.1
Manufacture Date	2020-10-13
Re-Test Date	2030-03-30

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

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