



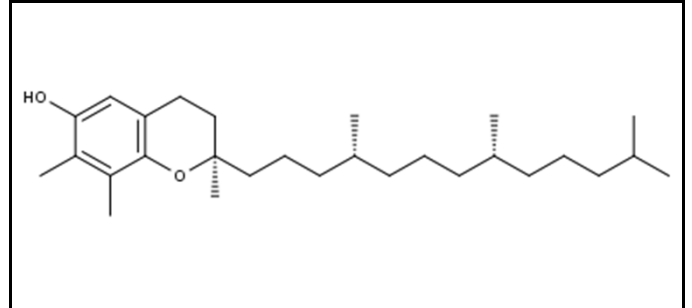
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# CERTIFICATE OF ANALYSIS

SUBSTANCE :	<b>(+)-gamma-TOCOPHEROL</b>	REF :	<b>2962 S</b>
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CAS RN	54-28-4
MOL FORMULA	C <sub>28</sub> H <sub>48</sub> O <sub>2</sub>
MOL WEIGHT	416,69

BATCH#	<b>01</b>
DATE OF RELEASE	21 June 2016
DATE OF RETEST	June 2018



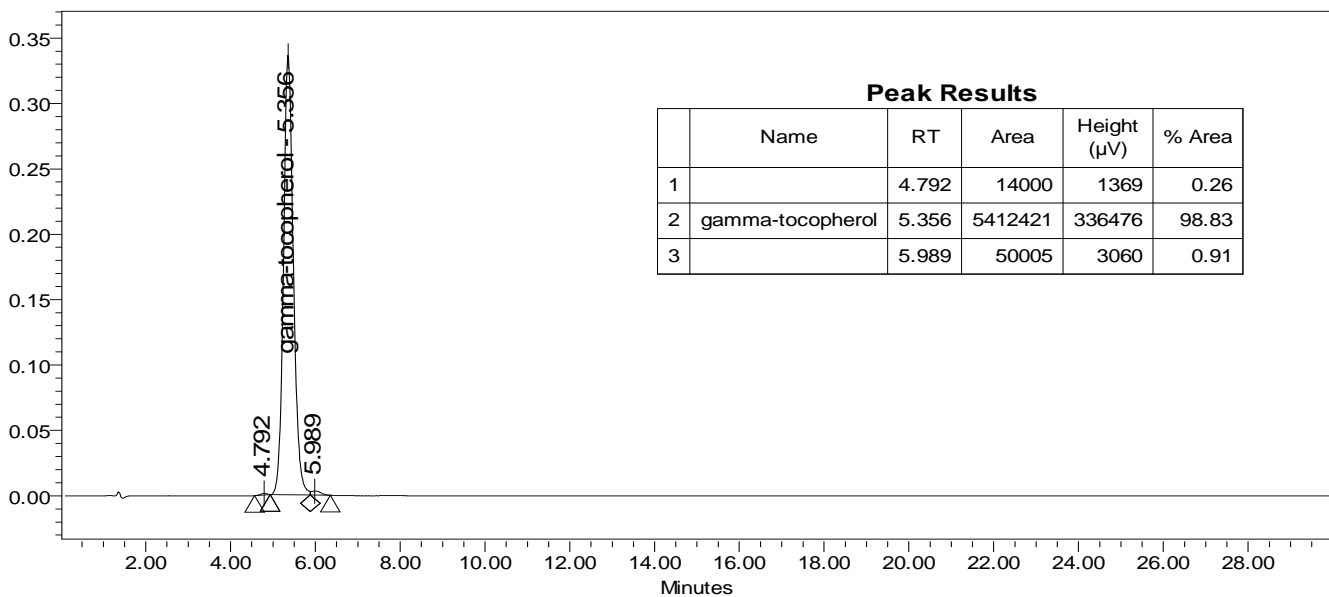
TEST	METHOD	UNIT	SPECIFICATION	RESULT
Appearance	Visual		Oil	Conform
Chirality	Optical rotation	°	[α] <sub>D</sub> c=5 in DCM, 20°C	+1,5
Water content	KF	% w/w		0,2
Residual solvents	GC-HS	% w/w		0,3
Inorganics	ICP-MS	% w/w		0,1
Purity	HPLC	% area	≥ 98,0	98,8
<b>Assay</b>	<b>Calculated (*)</b>	<b>% w/w</b>		<b>98,2</b>

(\*) Assay = Purity by HPLC x (100 - %water - %solvents - %inorganics)

## CHROMATOGRAPHIC PURITY / HPLC

Column : Cosmosil Pye - 2x100mm - 5µm  
Mobile phase : Water + 1% HCOOH/Methanol 5/95  
Detection : UV 290 nm

Temperature : 30°C  
Flow rate : 0,2 ml/min  
Injection volume : 2 µl  
Injection solvent : MeOH



LONG TERM STORAGE : Below -15°C in a dry and dark place

TRANSPORT CONDITIONS : Ambient temperature

Signature : Sylvie Nuccio, Quality Control

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