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## **SPECIMEN**

# Certificate of Analysis

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PRODUCT NAME	D-beta-Tocopherol	Structure
PART NUMBER	00020319	
STANDARD TYPE	Primary (P)	но
LOT NUMBER	00020319-318	
REPORT NUMBER	CDXA-RSS-9663-00	
SAMPLE NUMBER	CDXP-22-00102	
DATE OF SAMPLE	02/03/2022	
DATE OF REPORT	02/10/2022	
CHEMICAL NAMES	(2R)-3,4-Dihydro-2,5,8-trimethyl-2-[(4R,8/ benzopyran-6-ol; β-D-Tocopherol; (R,R,1	· · · · ·
CHEMICAL FORMULA	C <sub>28</sub> H <sub>48</sub> O <sub>2</sub>	
MOLECULAR WEIGHT (MW)	416.68	
CHEMICAL FAMILY	Tocopherols	
CAS NUMBER	[16698-35-4]	
EC#(EINECS)	240-747-1	
RTECS	N/A	

#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	91.0%
HPLC	0.700.10.2.METH38	≥ 90%	91.2%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Xylenes: 1720 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Oil

\*Testing performed at an ISO 17025 accredited subcontracted laboratory. ADJUSTED PURITY: 91.0% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 91.2% HPLC

### **STORAGE CONDITIONS**

**STORAGE** -20 °C in a dry place.

**EXPIRATION DATE** 02/2027 under the above conditions.

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10900 Wilshire Blvd., Suite 600, Los Angeles, CA 90024 | T: +1 949-419-0288 | F: +1 949-419-0294 | www.chromadex.com Laboratory address: 1751 S. Fordham St., Suite 350, Longmont, CO 80503 <u>India Contact:</u> Life Technologies (India) Pvt. Ltd. 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com





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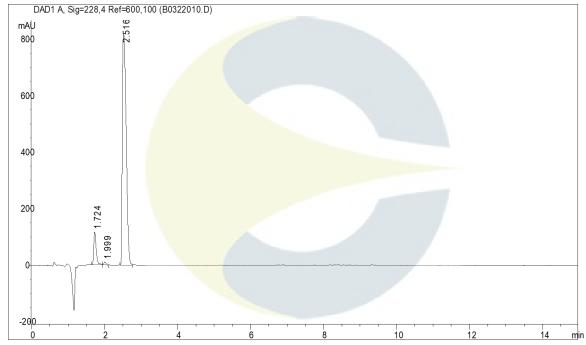


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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1100 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna Silica (2) 150 x 2.00 mm, 3 $\mu m$ particle size
MOBILE PHASE	0.2% Isopropyl alcohol + 0.8% Acetic acid in n-Hexane Isocratic for 15 minutes
COLUMN TEMP.	35 °C
FLOW RATE	0.8 mL/minute
INJECTION VOL.	10.0 μL
INJECTION CONC.	1.1 mg/mL in n-Hexane
DETECTION	228 ± 2 nm

#### HPLC CHROMATOGRAM OF D-BETA-TOCOPHEROL (CDXP-22-00102)





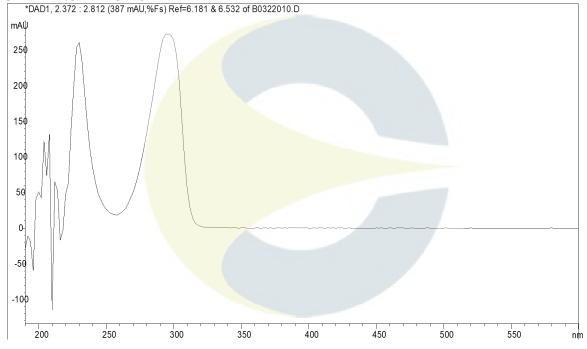


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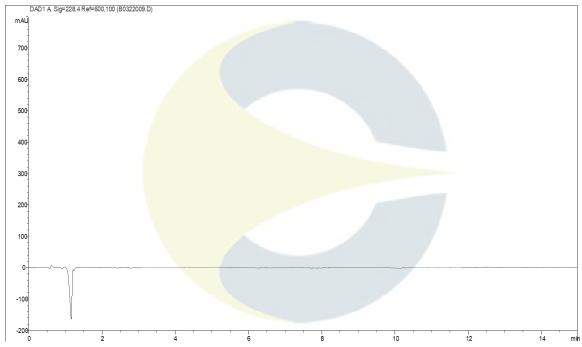
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#### **UV SPECTRUM AT 2.5 MINUTES**



#### HPLC CHROMATOGRAM OF DILUENT BLANK



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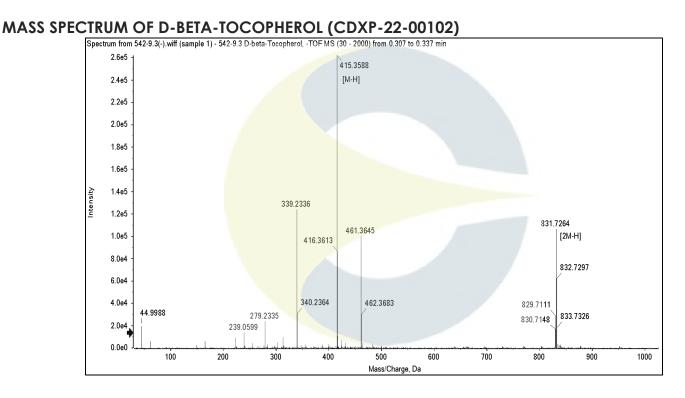




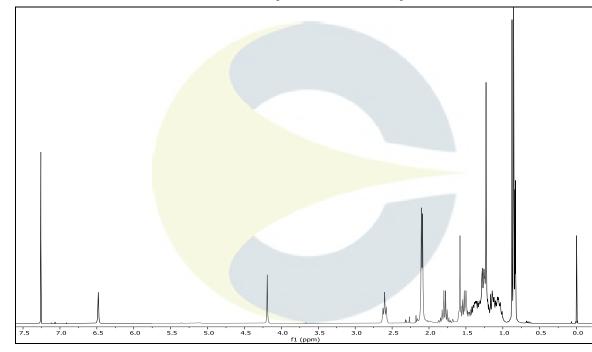
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### <sup>1</sup>H-NMR SPECTRUM OF D-BETA-TOCOPHEROL (CDXP-22-00102) IN CDCl<sub>3</sub> + TMS





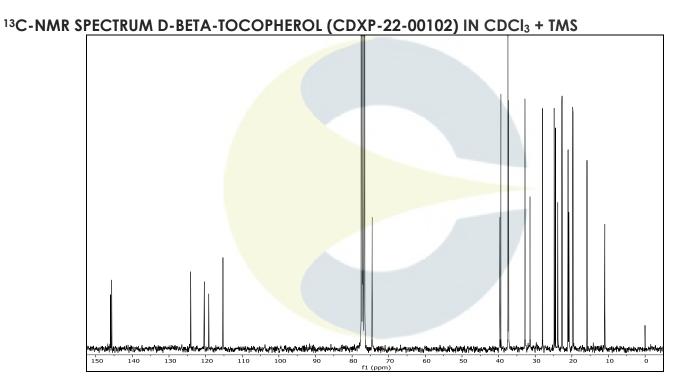


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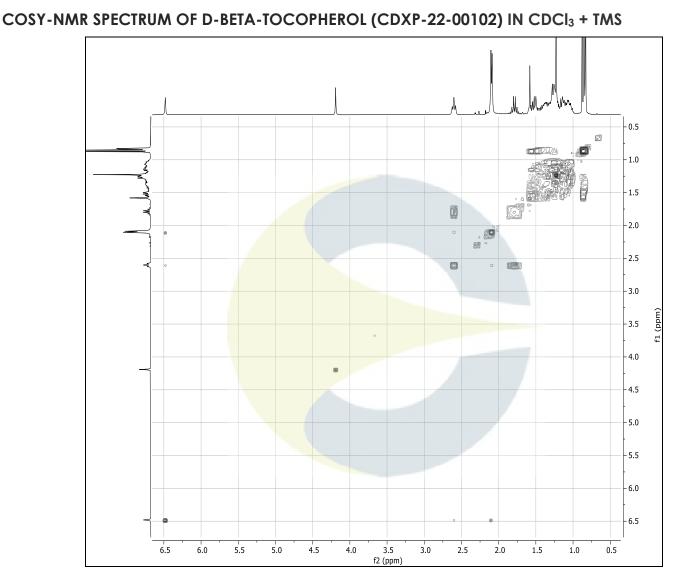


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#### **REVISION HISTORY**

<u>Revision History</u>	Date of Revision	Document/Changes
00	02/10/2022	New report