





Certificate of Analysis

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PRODUCT NAME D-alpha-Tocopherol

PART NUMBER 00020311

STANDARD TYPE Primary (P)

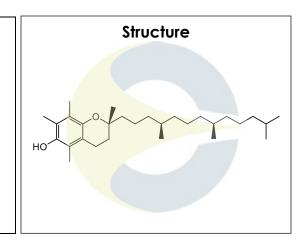
LOT NUMBER 00020311-001

REPORT NUMBER CDXA-RSS-9114-00

SAMPLE NUMBER CDXP-20-00572

DATE OF SAMPLE 07/30/2020

DATE OF REPORT 08/24/2020



CHEMICAL NAMES (2R)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-

benzopyran-6-ol; (+)- α -Tocopherol; 5,7,8-Trimethyltocol; α -Vitamin E

CHEMICAL FORMULA C₂₉H₅₀O₂

MOLECULAR WEIGHT (MW) 430.71

CHEMICAL FAMILY Vitamins

CAS NUMBER [59-02-9]

EC#(EINECS) 200-412-2

RTECS DJ2900000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.7%
HPLC	See below	NA	99.7%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Colorless oil

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.7% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.7% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 07/2025 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF

COLUMN Phenomenex Luna Silica(2) 150 x 2.00 mm, 3 μm particle size

MOBILE PHASE 0.2% Isopropyl alcohol + 0.8% Acetic acid in n-Hexane

Isocratic for 15 minutes.

COLUMN TEMP. 35 °C

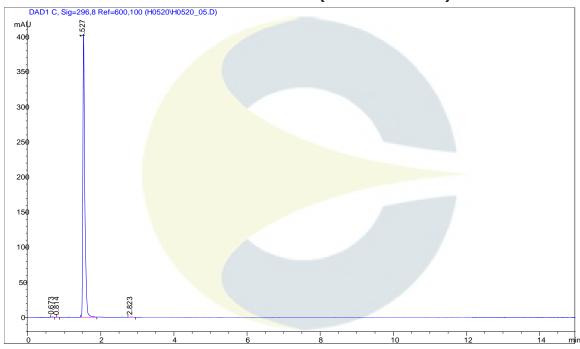
FLOW RATE 0.8 mL/minute

INJECTION VOL. $1.0 \mu L$

INJECTION CONC. 2.5 mg/mL in n-Hexane

DETECTION 296 \pm 4 nm

HPLC CHROMATOGRAM OF D-ALPHA-TOCOPHEROL (CDXP-20-00572)





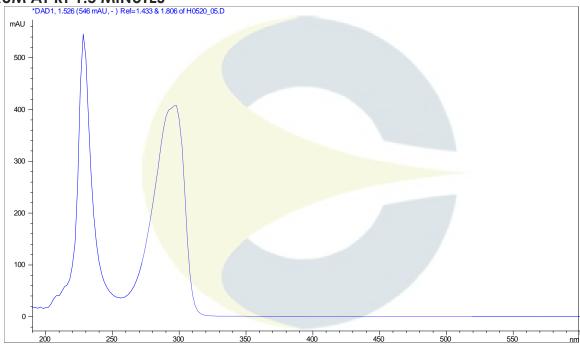




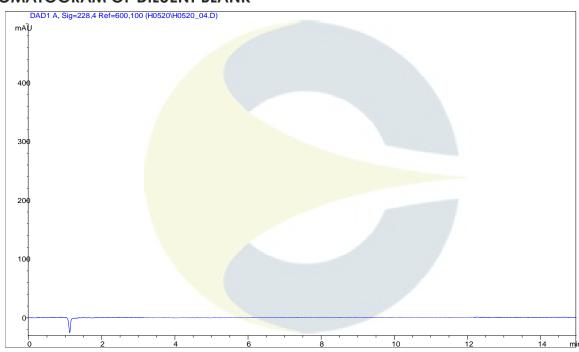
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UV SPECTRUM AT RT 1.5 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





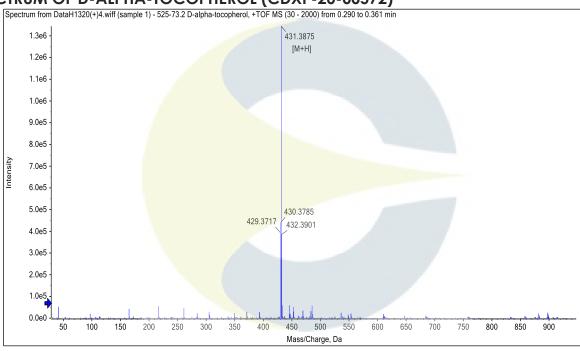




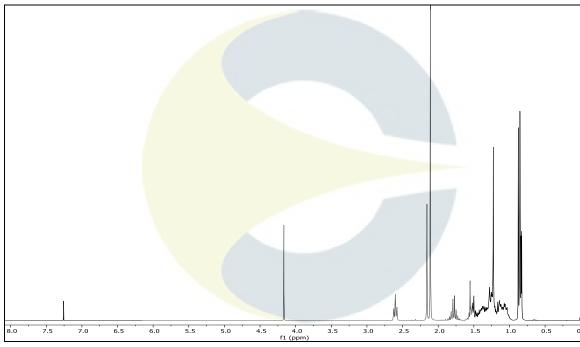
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MASS SPECTRUM OF D-ALPHA-TOCOPHEROL (CDXP-20-00572)



¹H-NMR SPECTRUM OF D-ALPHA-TOCOPHEROL (CDXP-20-00572) IN CDCl₃





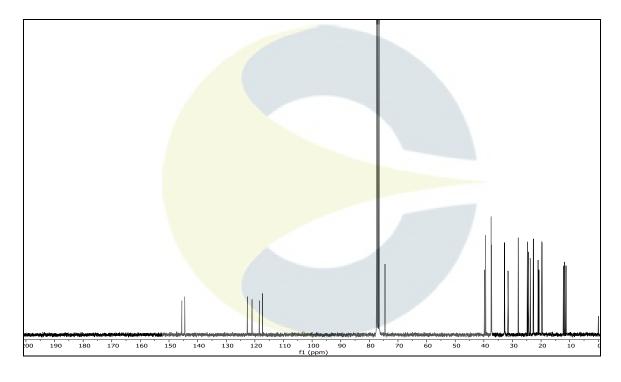




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13C-NMR SPECTRUM D-ALPHA-TOCOPHEROL (CDXP-20-00572) IN CDCI₃



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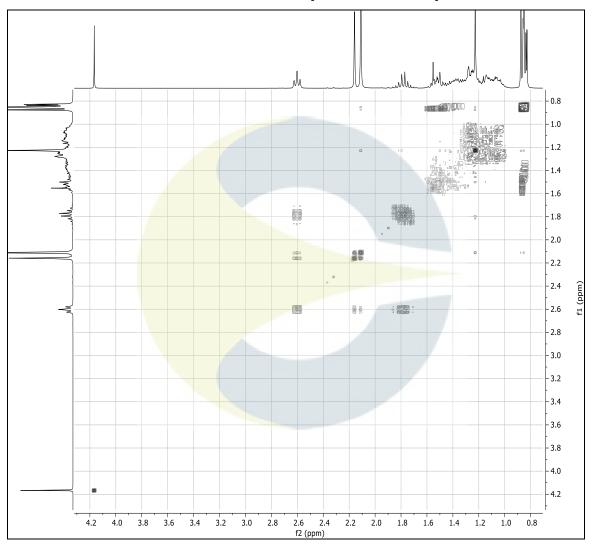




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COSY-NMR SPECTRUM OF D-ALPHA-TOCOPHEROL (CDXP-20-00572) IN CDCI₃



REVISION HISTORY

Revision History	<u>Date of Revision</u>	<u>Document/Changes</u>

00 8/24/2020 New report