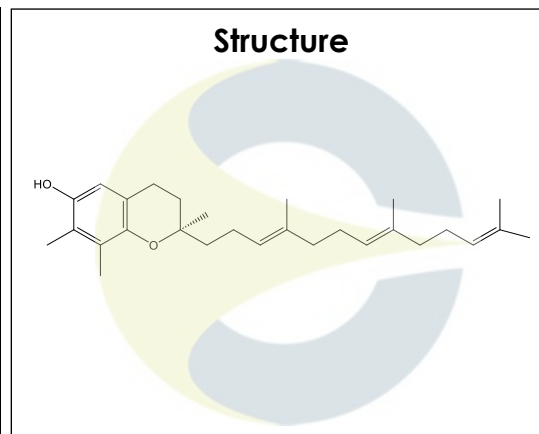


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PRODUCT NAME	D-Gamma-Tocotrienol
PART NUMBER	00020328
STANDARD TYPE	Primary (P)
LOT NUMBER	00020328-102
REPORT NUMBER	CDXA-RSS-10070-00
SAMPLE NUMBER	CDXP-23-00062
DATE OF SAMPLE	01/25/2023
DATE OF REPORT	02/10/2023



CHEMICAL NAMES	(2R)-3,4-dihydro-2,7,8-trimethyl-2-[(3E,7E)-4,8,12-trimethyl-3,7,11-tridecatrien-1-yl]-2H-1-Benzopyran-6-ol; Plastochromanol 3; (R)-γ-Tocotrienol
CHEMICAL FORMULA	C ₂₈ H ₄₂ O ₂
MOLECULAR WEIGHT (MW)	410.63
CHEMICAL FAMILY	Tocotrienols
CAS NUMBER	[14101-61-2]
EC#(EINECS)	604-216-1
RTECS	DJ2903000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.3%
HPLC	0.700.10.2.METH38	≥ 90%	99.3%
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	Clear to light yellow oil

*Testing performed at an ISO 17025 accredited subcontracted laboratory.
 ADJUSTED PURITY: 99.3% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.3% HPLC

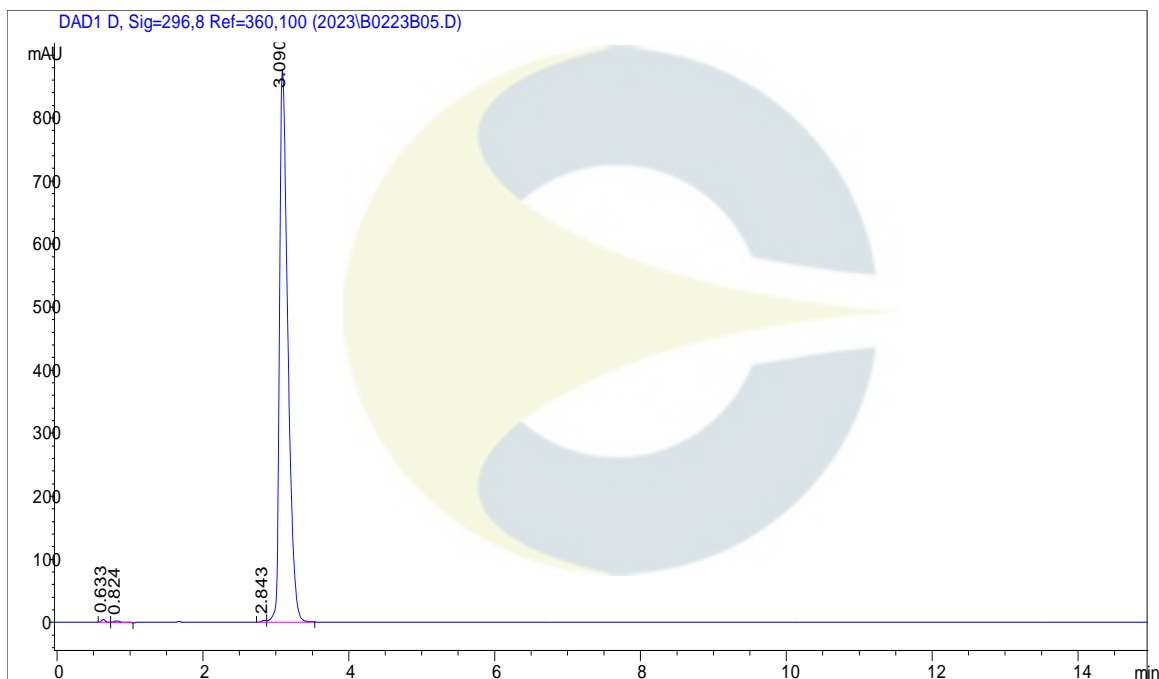
STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	01/2028 under the above conditions.

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ANALYTICAL CONDITIONS

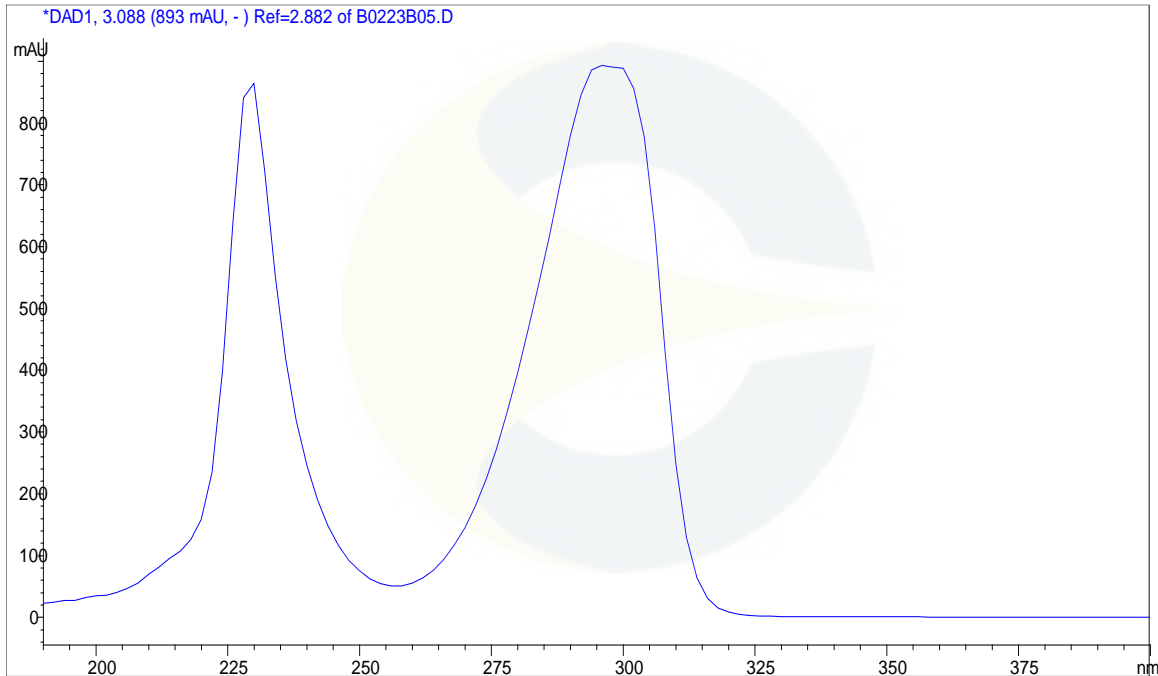
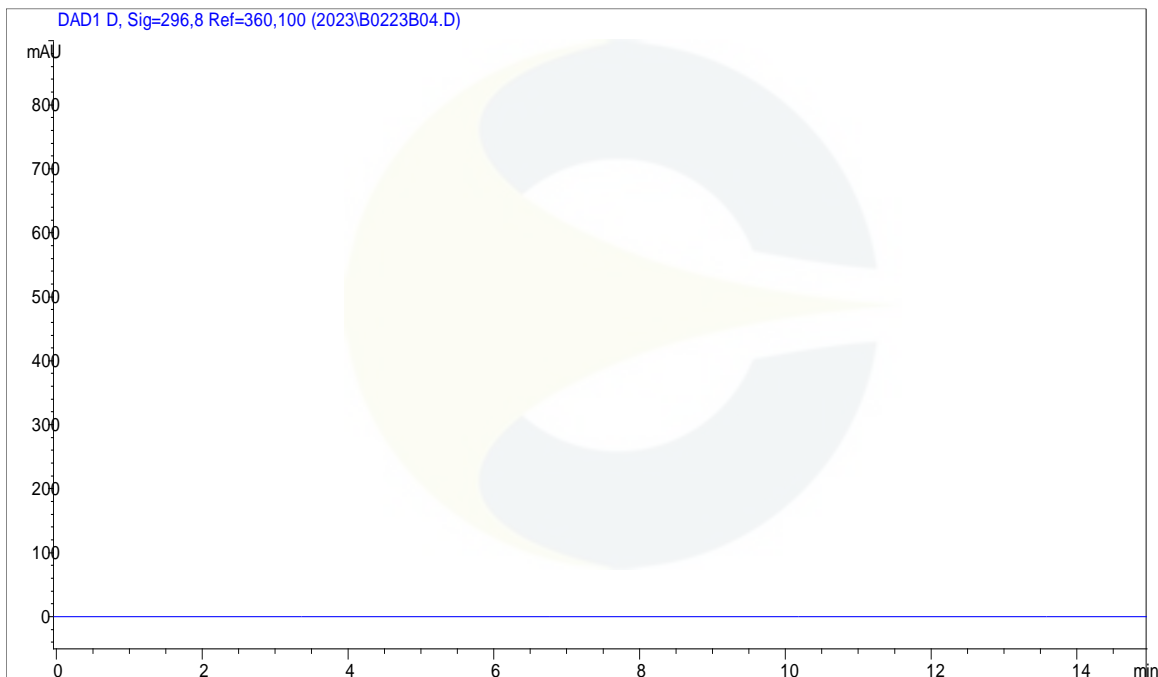
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna Silica(2) 150 x 2.00 mm, 3 µm particle size
MOBILE PHASE	A - 0.2% IPA and 0.8% HOAc in n-Hexane Isocratic 100% A for 15 minutes.
COLUMN TEMP.	35 °C
FLOW RATE	0.8 mL/minute
INJECTION VOL.	10.0 µL
INJECTION CONC.	1.0 mg/mL in n-Hexane
DETECTION	296 ± 4 nm

HPLC CHROMATOGRAM OF D-GAMMA-TOCOTRIENOL (CDXP-23-00062)


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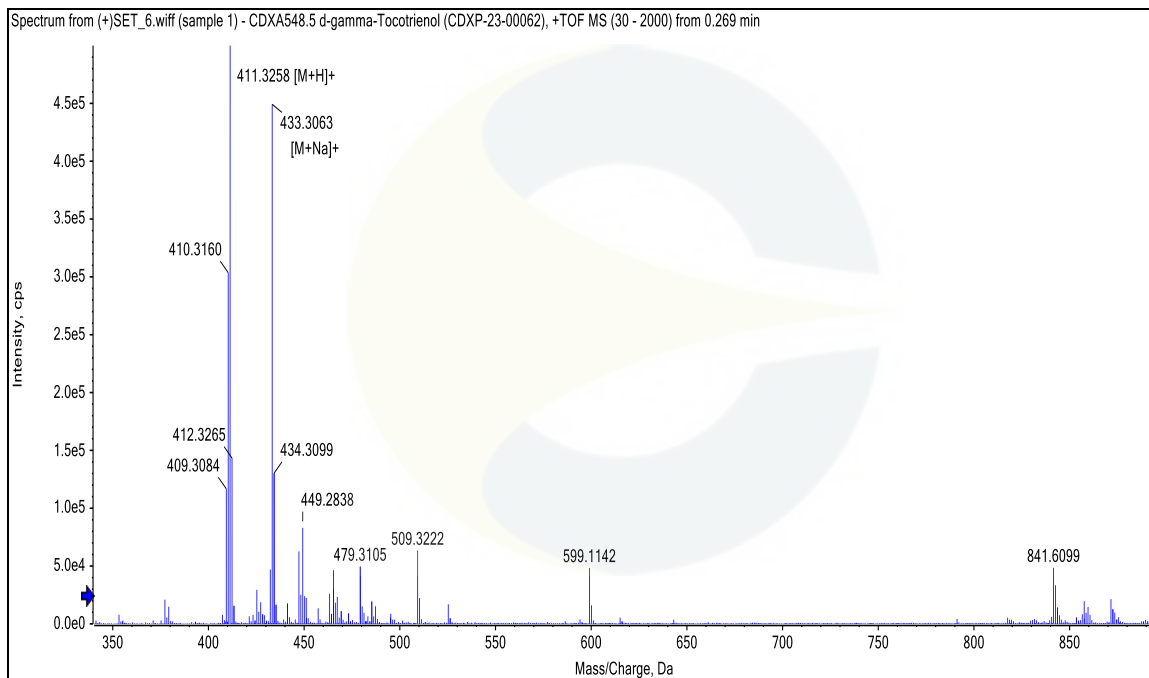
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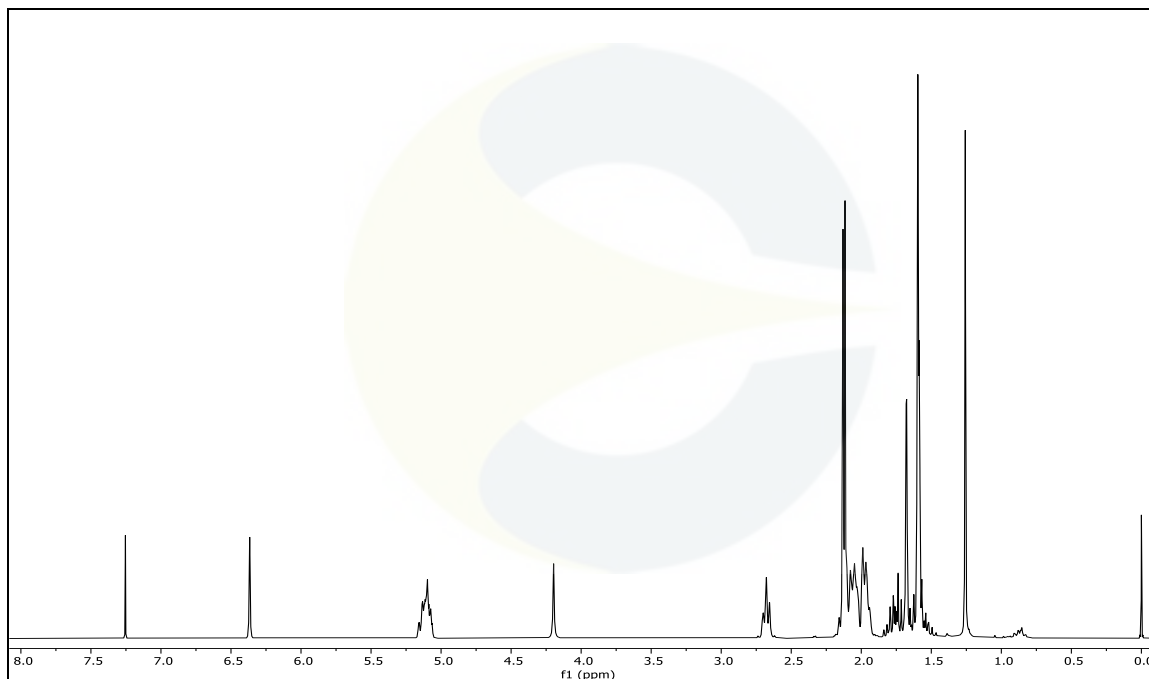
UV SPECTRUM AT RT = 3.1 MINUTES**HPLC CHROMATOGRAM OF DILUENT BLANK**

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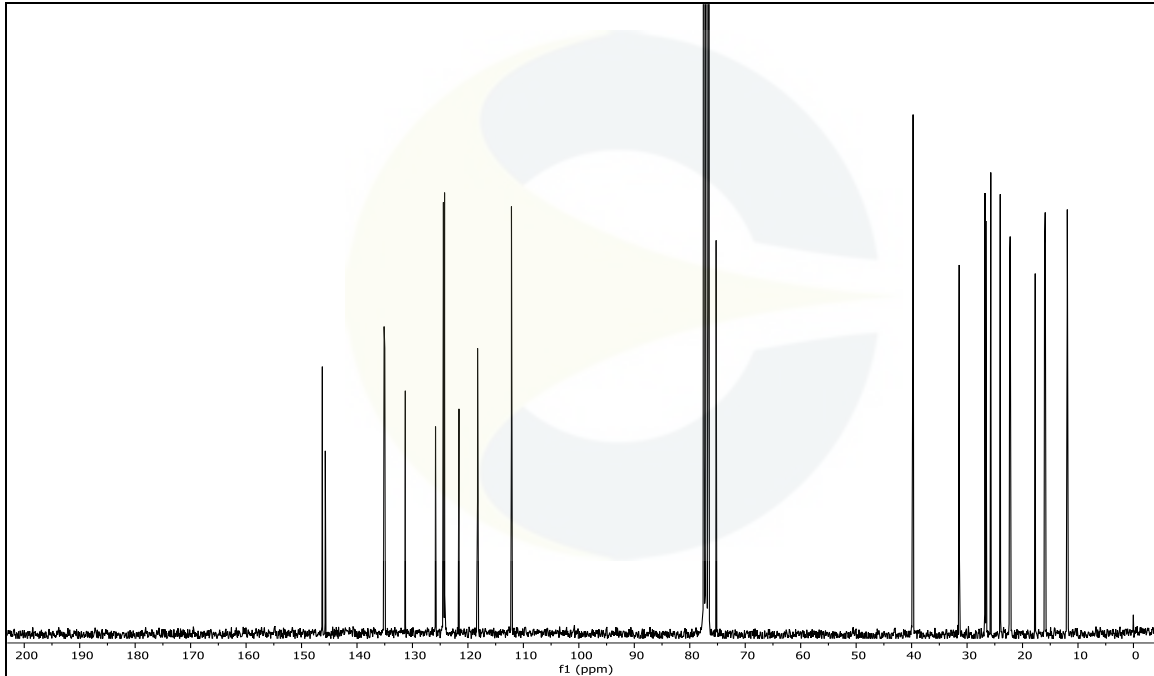
MASS SPECTRUM OF D-GAMMA-TOCOTRIENOL (CDXP-23-00062)



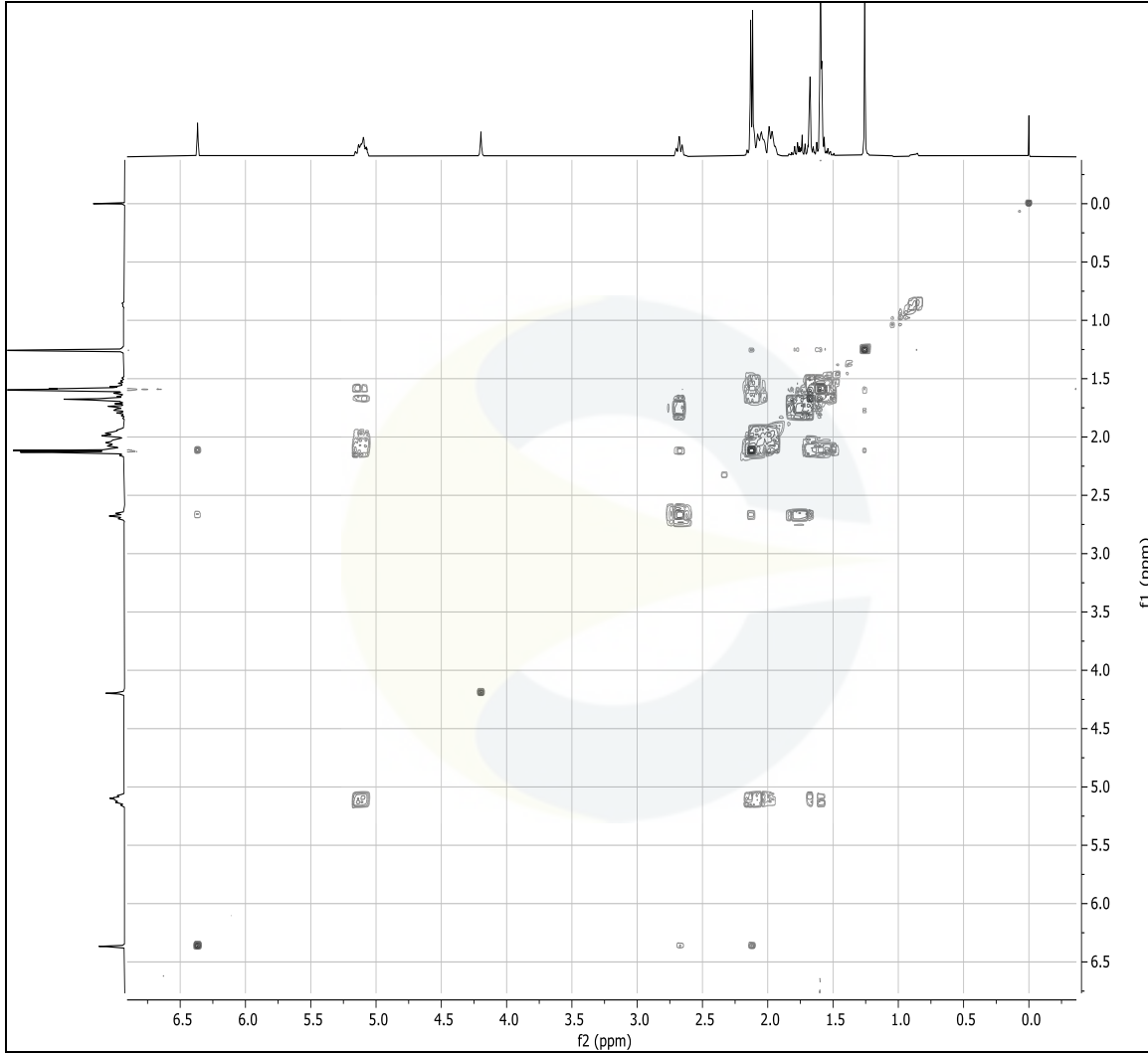
¹H-NMR SPECTRUM OF D-GAMMA-TOCOTRIENOL (CDXP-23-00062) CDCl₃ + TMS



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¹³C-NMR SPECTRUM D-GAMMA-TOCOTRIENOL (CDXP-23-00062) IN CDCl₃ + TMS

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COSY-NMR SPECTRUM OF D-GAMMA-TOCOTRIENOL (CDXP-23-00062) IN CDCl₃ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/10/2023	New report

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