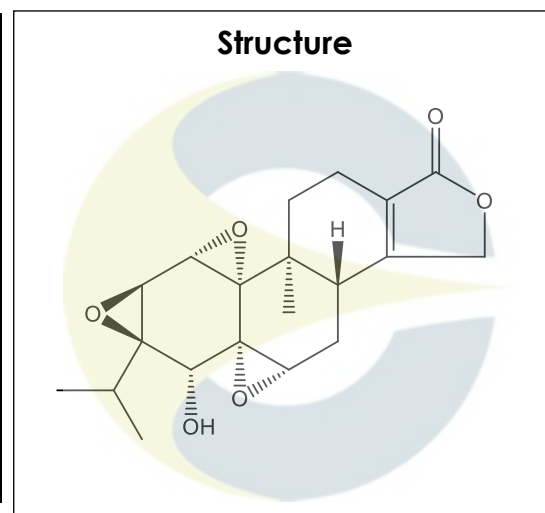


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PRODUCT NAME	Triptolide
PART NUMBER	00020480
STANDARD TYPE	Primary (P)
LOT NUMBER	00020480-806
REPORT NUMBER	CDXA-RSS-8492-01
SAMPLE NUMBER	CDXP-19-00069
DATE OF SAMPLE	01/28/2019
DATE OF RE-EVALUATION	12/14/2022
DATE OF REPORT	01/31/2023



CHEMICAL NAMES	(3bS,4aS,5aS,6R,6aR,7aS,7bS,8aS,8bS)-3b,4,4a,6,6a,7a,7b,8b,9,10-Decahydro-6-hydroxy-8b-methyl-6a-(1-methylethyl)-trioxireno(4b,5:6,7:8a,9)phenanthro(1,2-c)furan-1(3H)-one; Triptolid
CHEMICAL FORMULA	C ₂₀ H ₂₄ O ₆
MOLECULAR WEIGHT (MW)	360.40
CHEMICAL FAMILY	Terpenes
CAS NUMBER	[38748-32-2]
EC#(EINECS)	683-214-2
RTECS	YK7751000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.1%
HPLC	0.700.10.2.METH22	≥ 90%	99.5%
NMR	30.1-04-1.0-000733	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent*	99.1-CDXA-3.0-000621	NA	DCM – 0.4%; EtOAc < 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

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*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.1% IS BASED ON (100 - 0.4 SOLVENTS - 0.0 WATER) X 99.5% HPLC

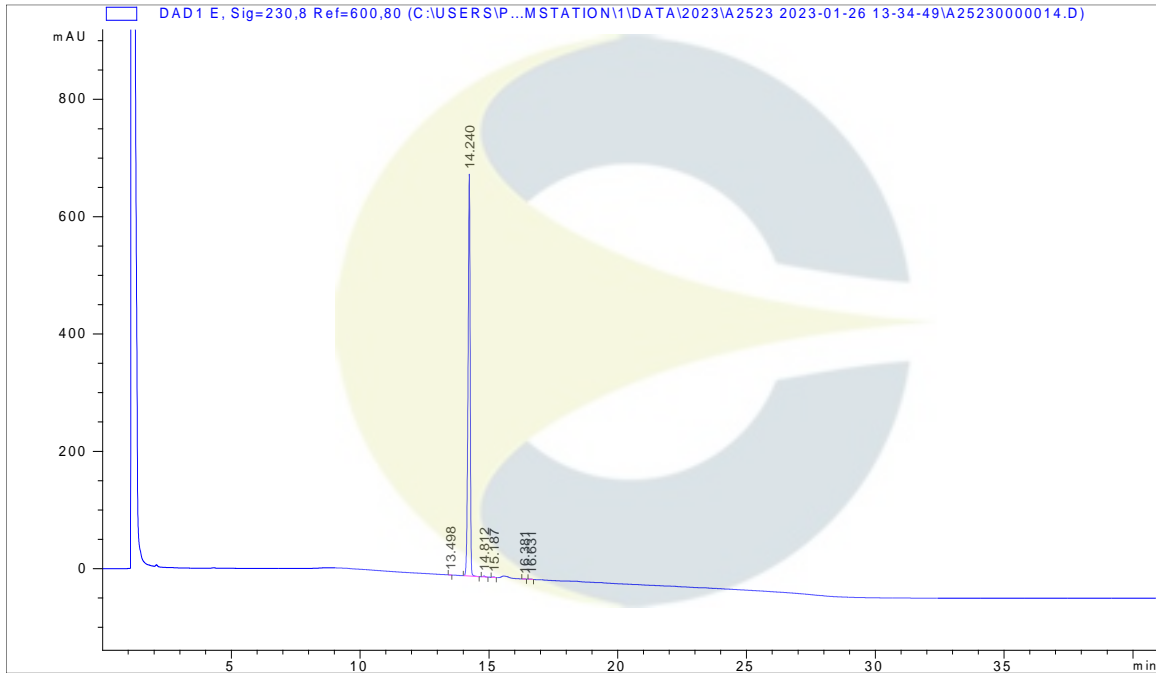
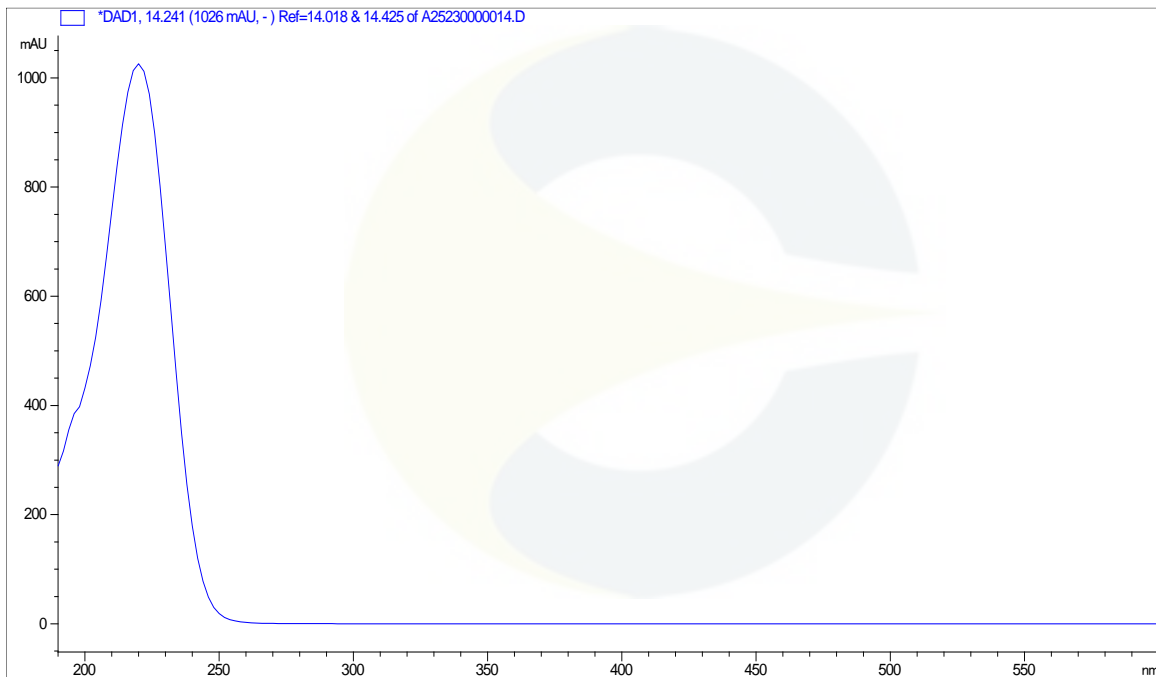
STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	12/2027 under the above conditions.

ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	1.0 µL
INJECTION CONC.	1.1 mg/mL in Dimethyl Sulfoxide
DETECTION	230 ± 4 nm

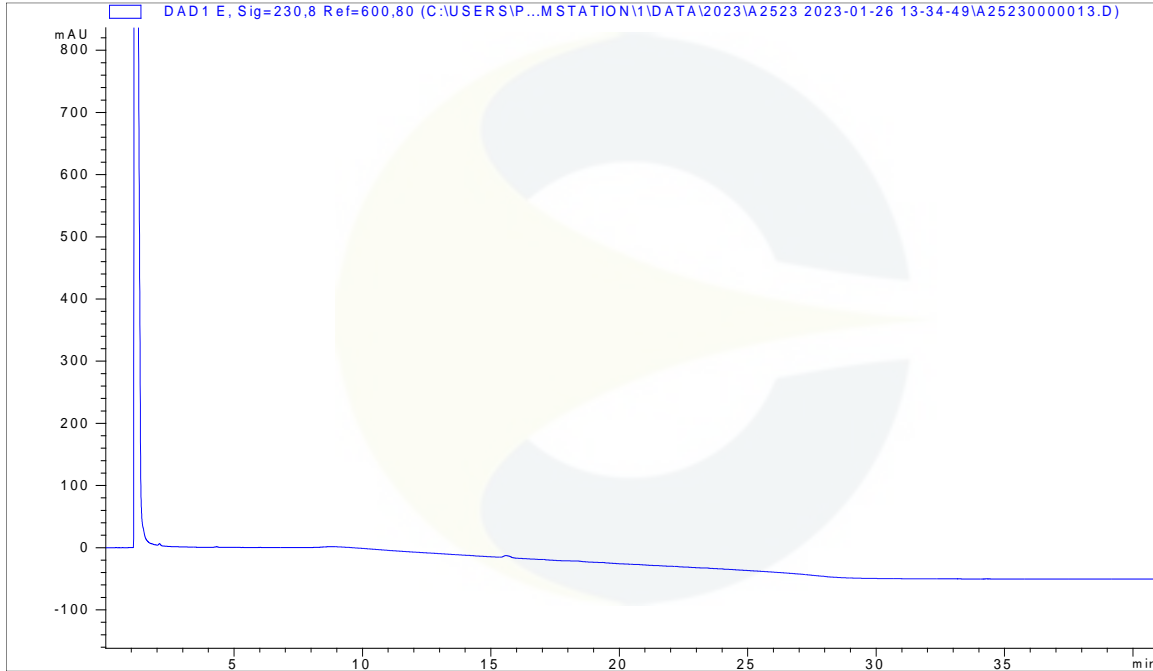
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HPLC CHROMATOGRAM OF TRIPTOLIDE (CDXP-19-00069)**UV SPECTRUM AT RT =14.2 MINUTES**

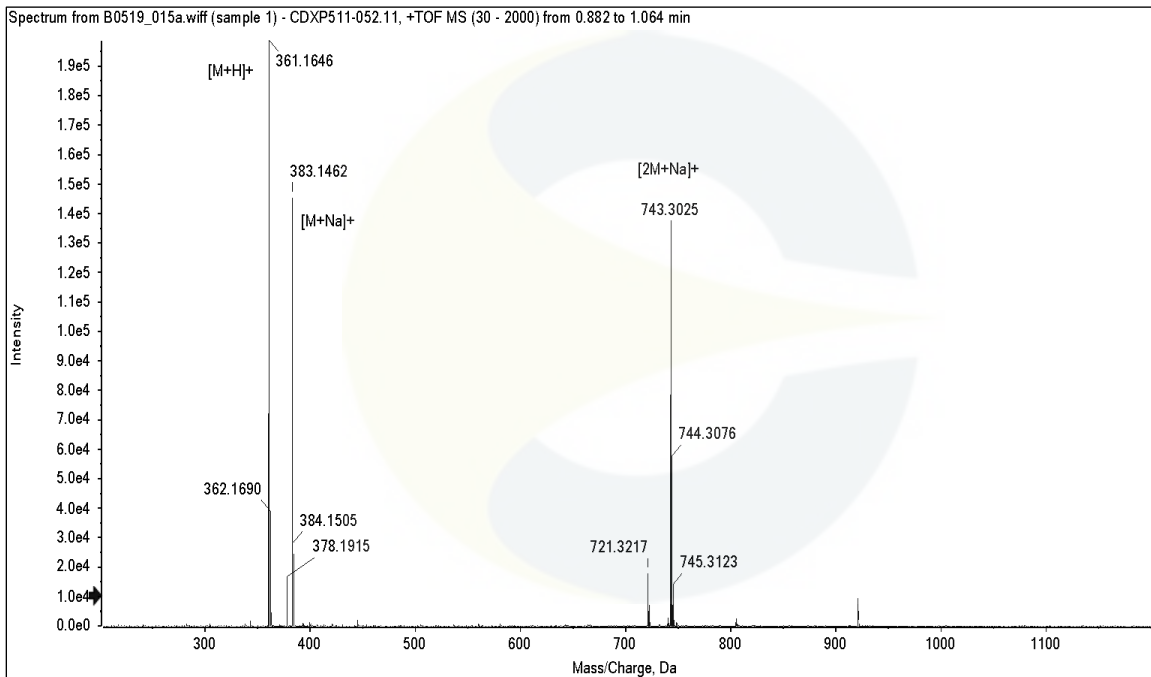
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HPLC CHROMATOGRAM OF DILUENT BLANK



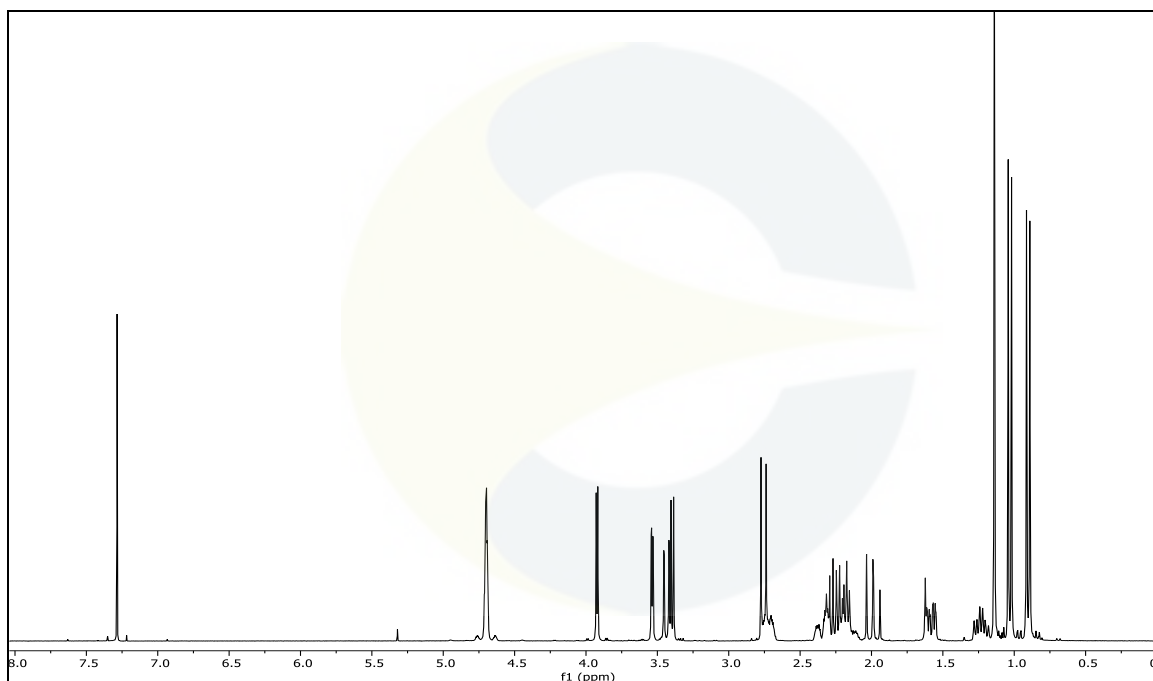
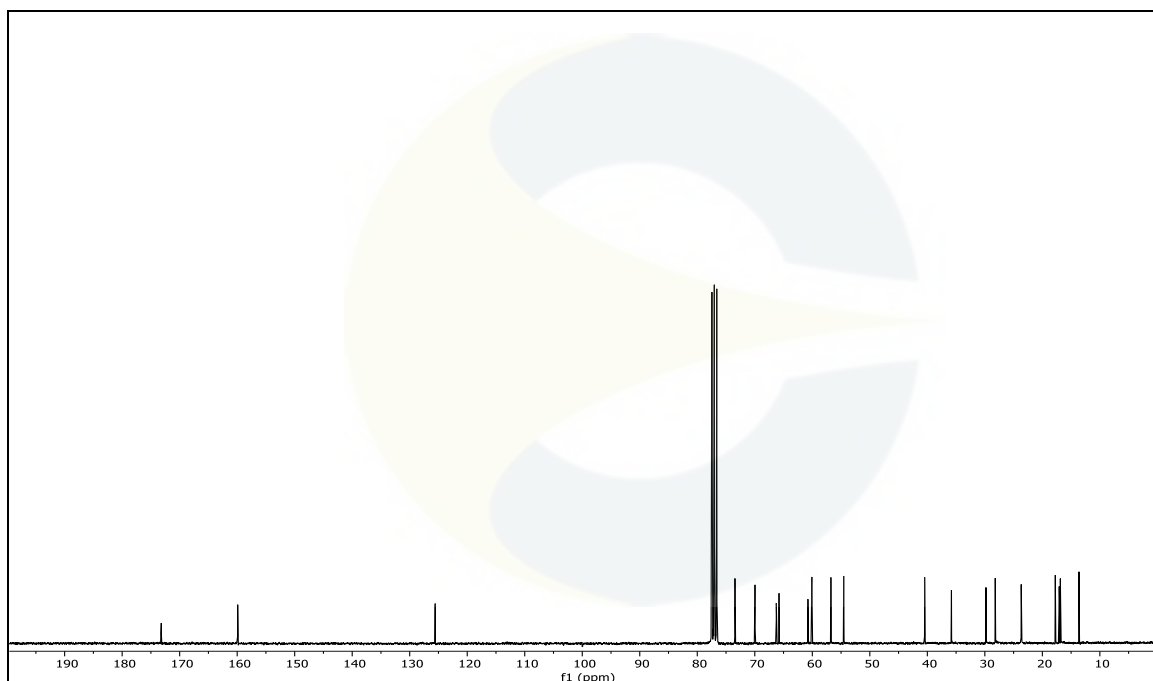
MASS SPECTRUM OF TRIPTOLIDE (CDXP-19-00069)



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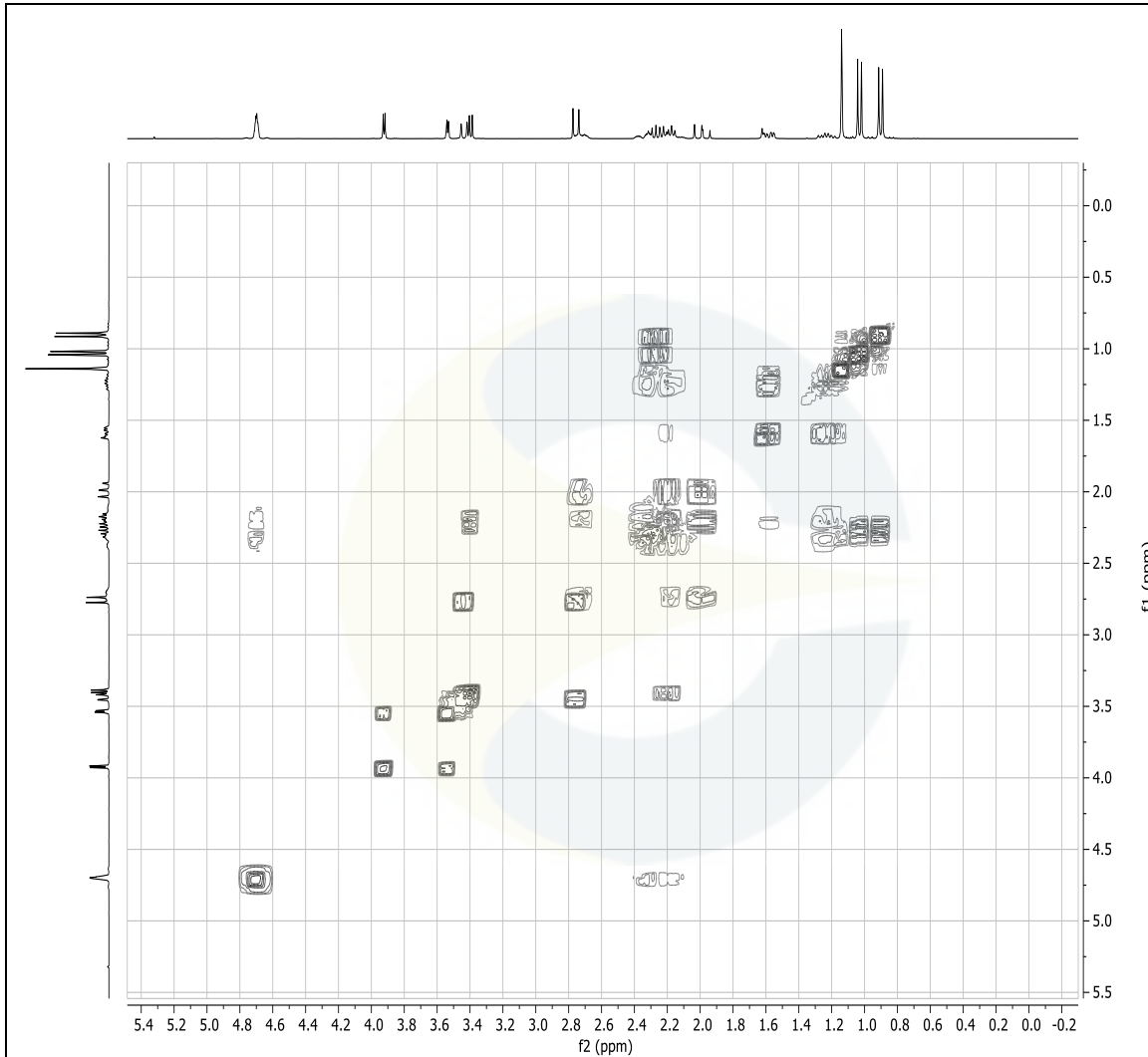
India Contact: Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA).
 Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

¹H-NMR SPECTRUM OF TRIPTOLIDE (CDXP-19-00069) IN CDCl₃**¹³C-NMR SPECTRUM OF TRIPTOLIDE (CDXP-19-00069) IN CDCl₃**

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COSY-NMR SPECTRUM OF TRIPTOLIDE (CDXP-19-00069) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/20/2019	New report
01	01/31/2023	Passed re-evaluation by HPLC and KF. Added EC#, updated expiration date, analytical methods, conditions, chromatograms, and results.

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