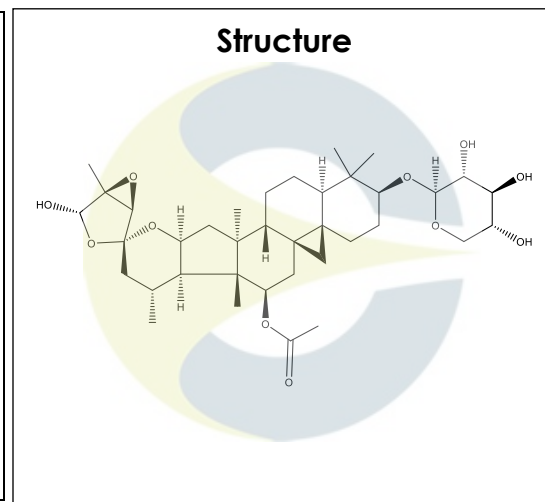


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PRODUCT NAME	Actein
PART NUMBER	00001355
STANDARD TYPE	Primary (P)
LOT NUMBER	00001355-010
REPORT NUMBER	CDXA-RSS-8466-01
SAMPLE NUMBER	CDXP-19-00021
DATE OF SAMPLE	01/14/2019
DATE OF RE-EVALUATION	12/07/2022
DATE OF REPORT	01/24/2023



CHEMICAL NAMES	(3β,12β,16β,23R,24R,25S,26S)-12-(acetyloxy)-16,23:23,26:24,25-triepoxy-26-hydroxy-9,19-cyclolanostan-3-yl β-D-Xylopyranoside, Shengmating
CHEMICAL FORMULA	C ₃₇ H ₅₆ O ₁₁
MOLECULAR WEIGHT (MW)	676.83
CHEMICAL FAMILY	Triterpenes
CAS NUMBER	[18642-44-9]
EC#(EINECS)	606-083-5
RTECS	ZF1780000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	77.6%
HPLC	0.700.10.2.METH22	NA	85.1%
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	MeOH – 4.4%; DCM – 3.4%
Water	0.700.12.37	NA	1.0%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 77.6% IS BASED ON (100 - 7.8 SOLVENTS - 1.0 WATER) X 85.1% HPLC

STORAGE CONDITIONS

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

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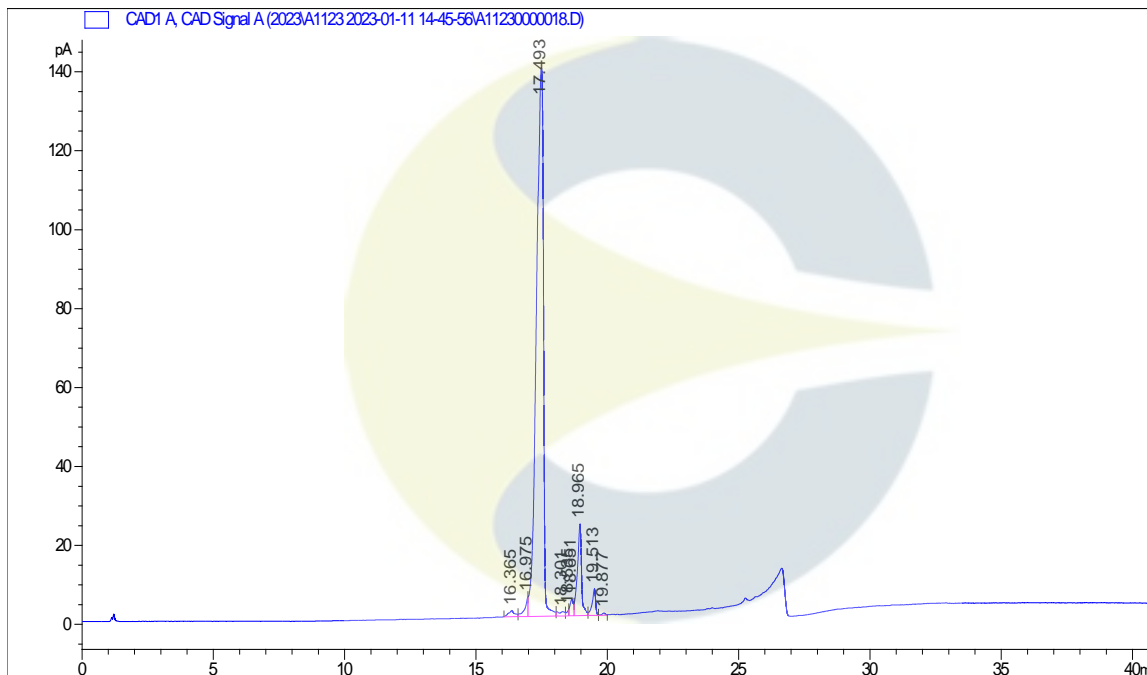
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL DETECTOR (CAD); 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.	10 µL
INJECTION CONC.	1.1 mg/mL in Acetonitrile
DETECTION	CAD

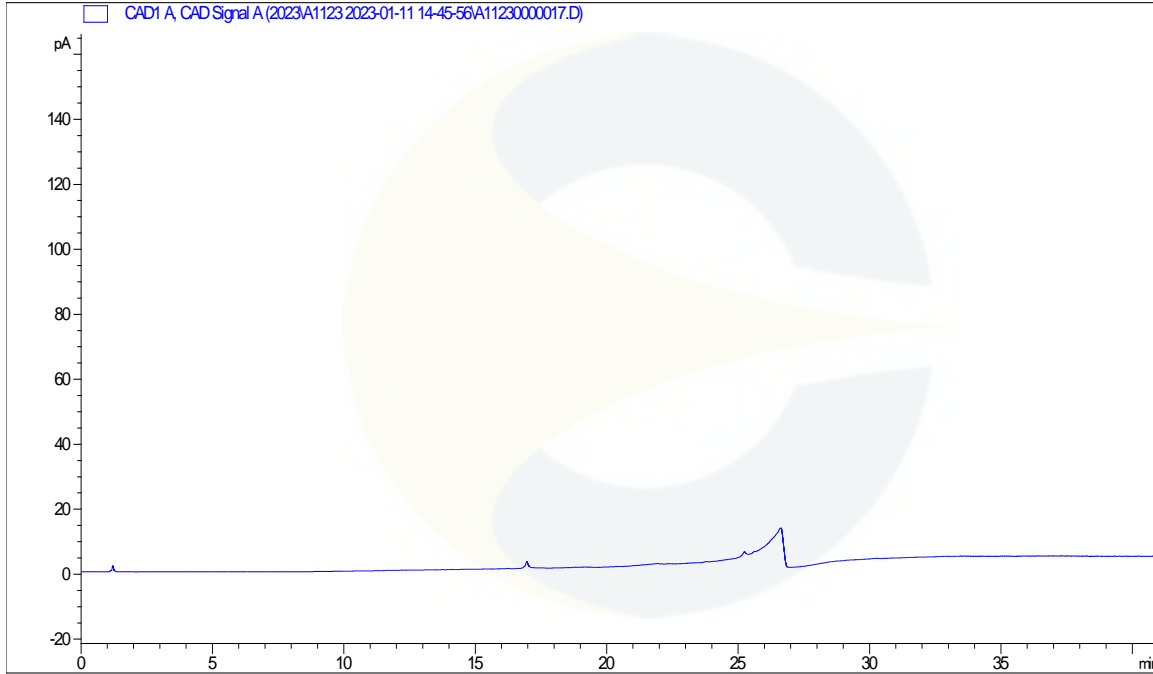
HPLC CHROMATOGRAM OF ACTEIN (CDXP-19-00021)



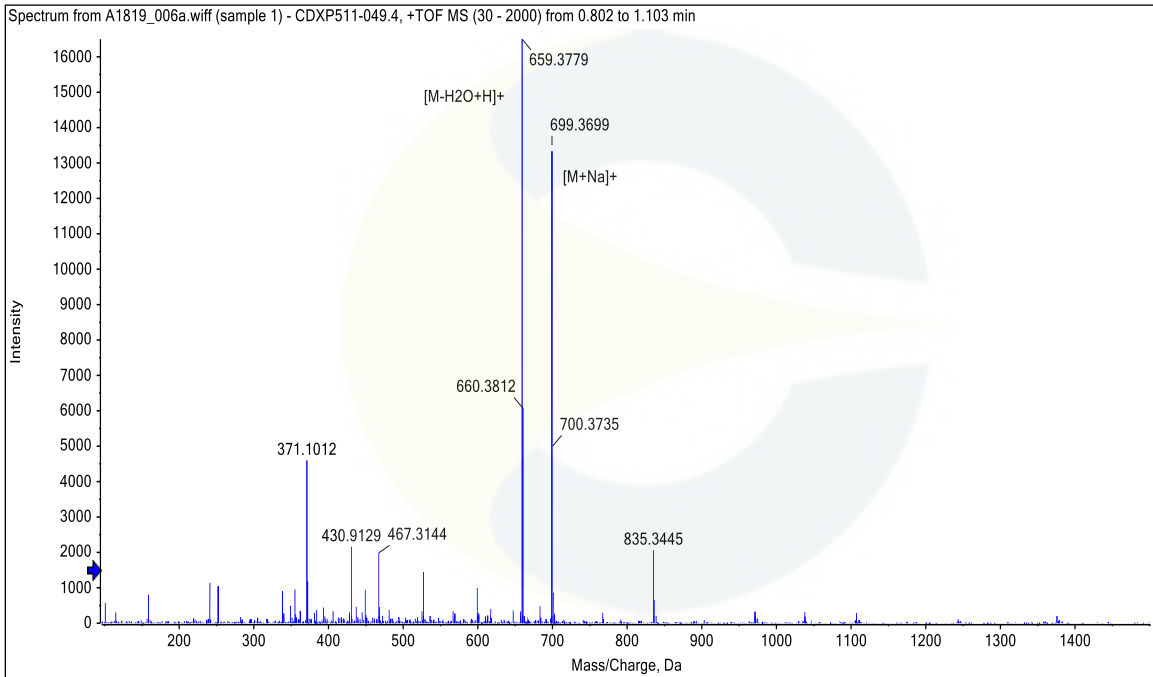
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HPLC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF ACTEIN (CDXP-19-00021)



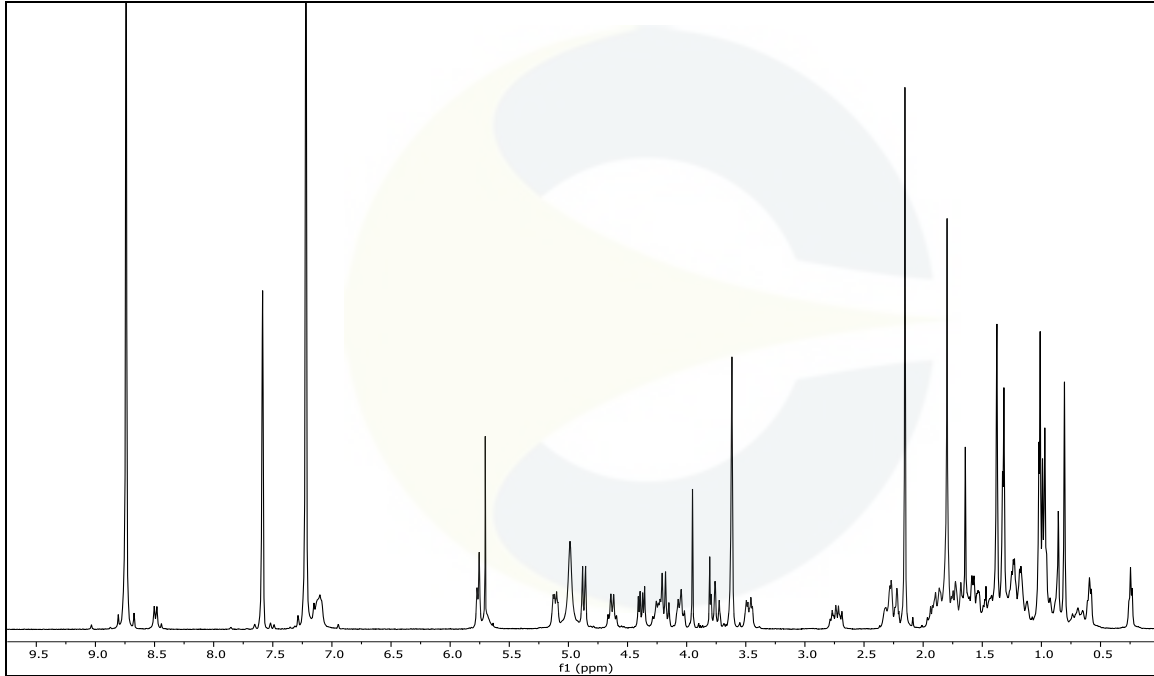
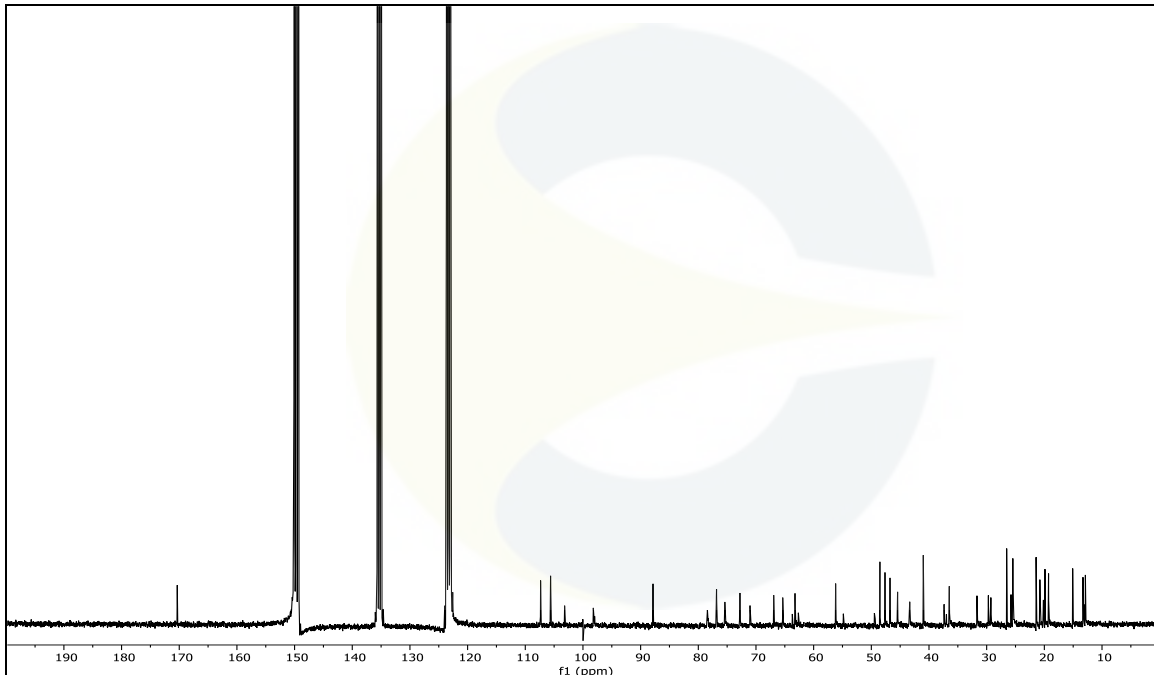
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Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

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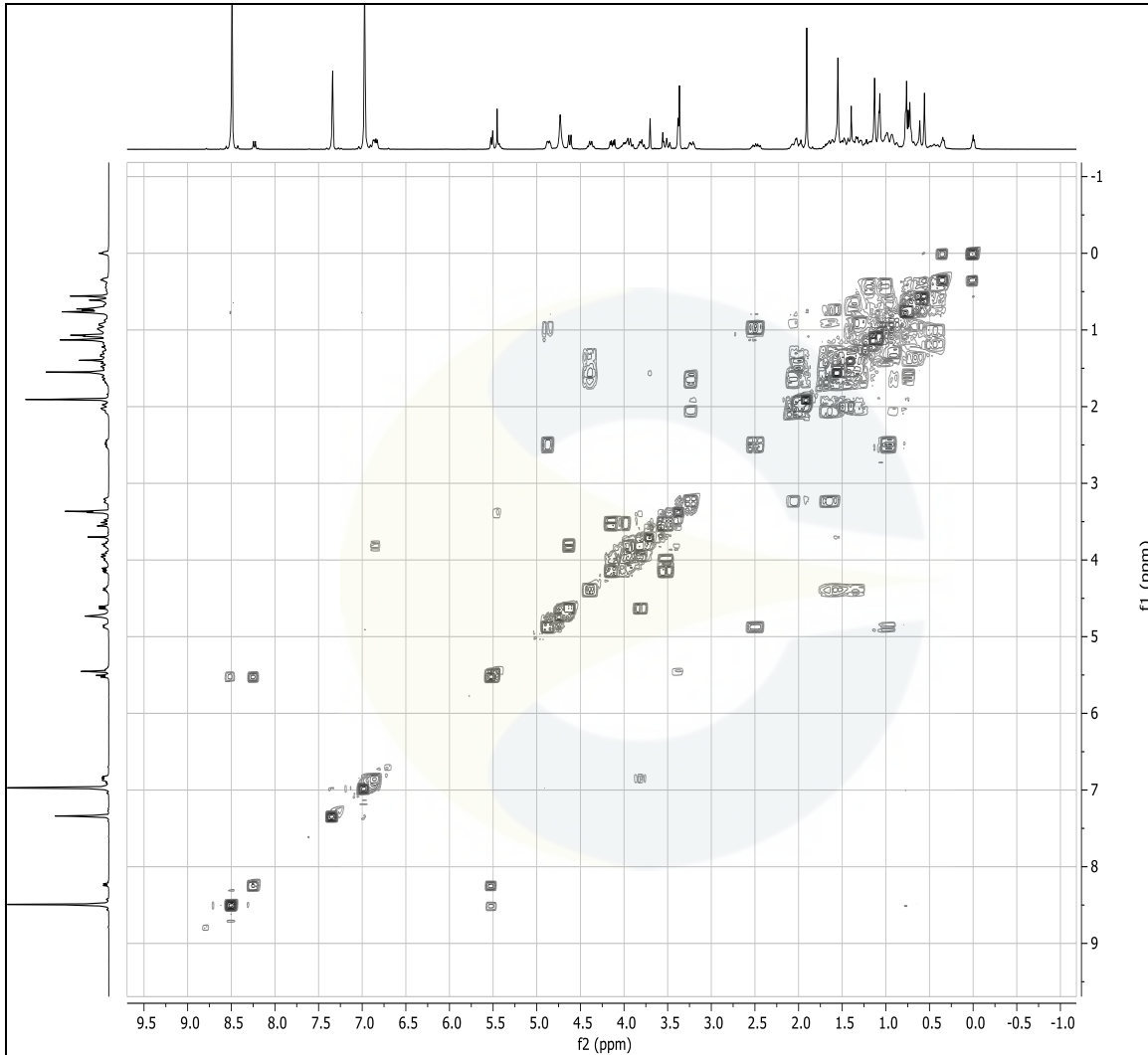
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¹H-NMR SPECTRUM OF ACTEIN (CDXP-19-00021) IN PYRIDINE - d₅**¹³C-NMR SPECTRUM OF ACTEIN (CDXP-19-00021) IN PYRIDINE - d₅**

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COSY-NMR SPECTRUM OF ACTEIN (CDXP-19-00021) IN PYRIDINE - *d*₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/20/2019	New report
01	01/24/2023	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms and results.

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