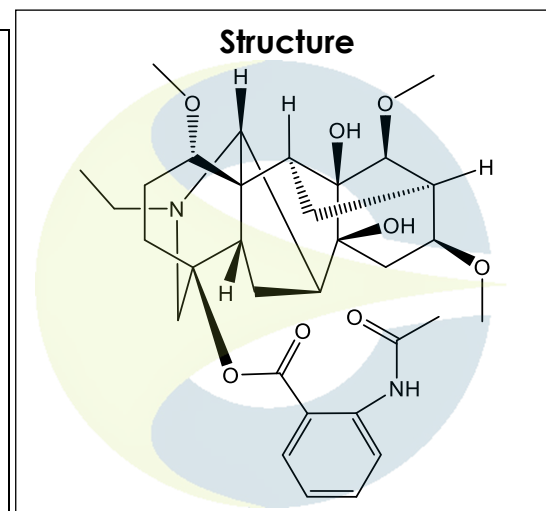


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PRODUCT NAME	Lappaconitine
PART NUMBER	00012073
STANDARD TYPE	Primary (P)
LOT NUMBER	00012073-723
REPORT NUMBER	CDXA-RSS-8138-01
SAMPLE NUMBER	CDXP-18-00702
DATE OF SAMPLE	07/02/2018
DATE OF RE-EVALUATION	06/15/2022
DATE OF REPORT	07/13/2022



CHEMICAL NAMES	(+)-Lappaconitine; Acetyl-10-deoxysepaconitine
CHEMICAL FORMULA	C ₃₂ H ₄₄ N ₂ O ₈
MOLECULAR WEIGHT (MW)	584.70
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[32854-75-4]
EC#(EINECS)	NA
RTECS	AR5569552

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.0%
HPLC	0.700.10.2.METH22	≥ 90%	97.1%
NMR	99.1-04-2.0-000122	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 < 0.1%; Acetone – 0.1%; DCM < 0.1%; CHCl ₃ – 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 97.0% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 97.1% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	06/2027 under the above conditions.

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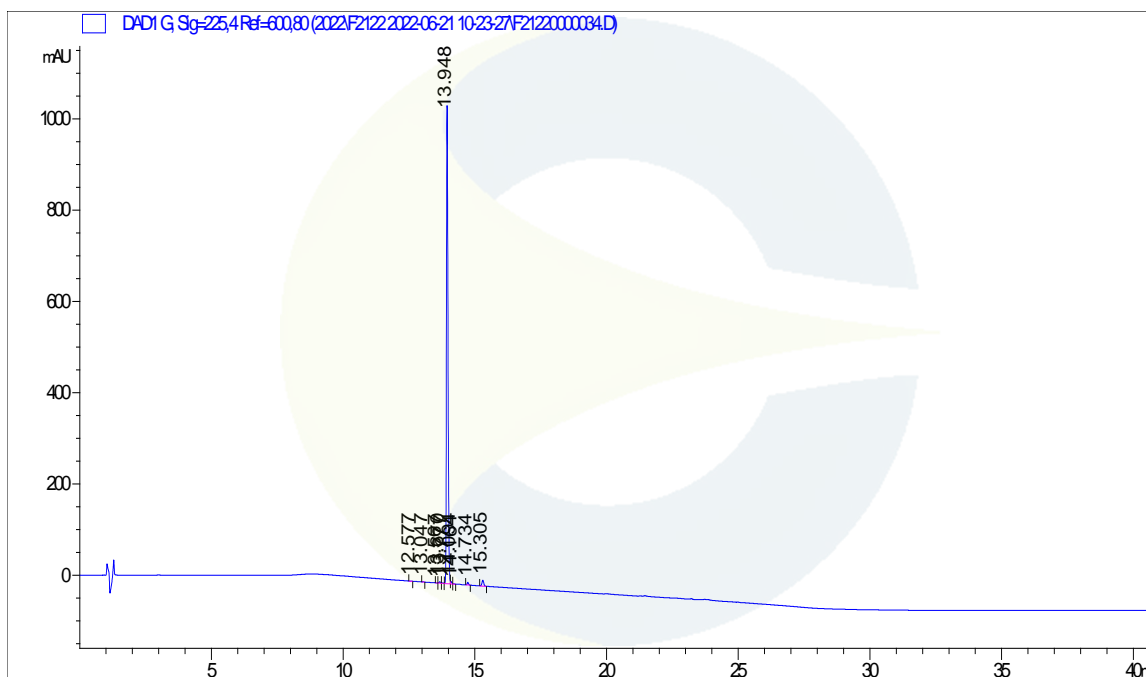
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ANALYTICAL CONDITIONS

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.	0.8 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	225 ± 2 nm

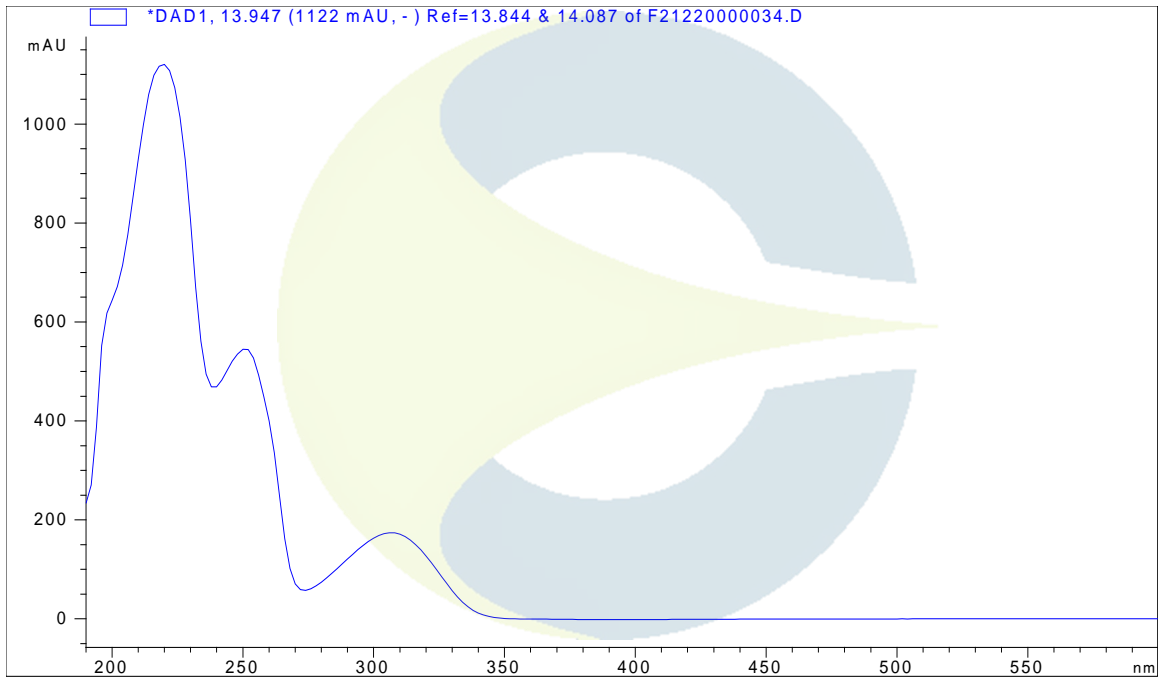
HPLC CHROMATOGRAM OF LAPPACONITINE (CDXP-18-00702)



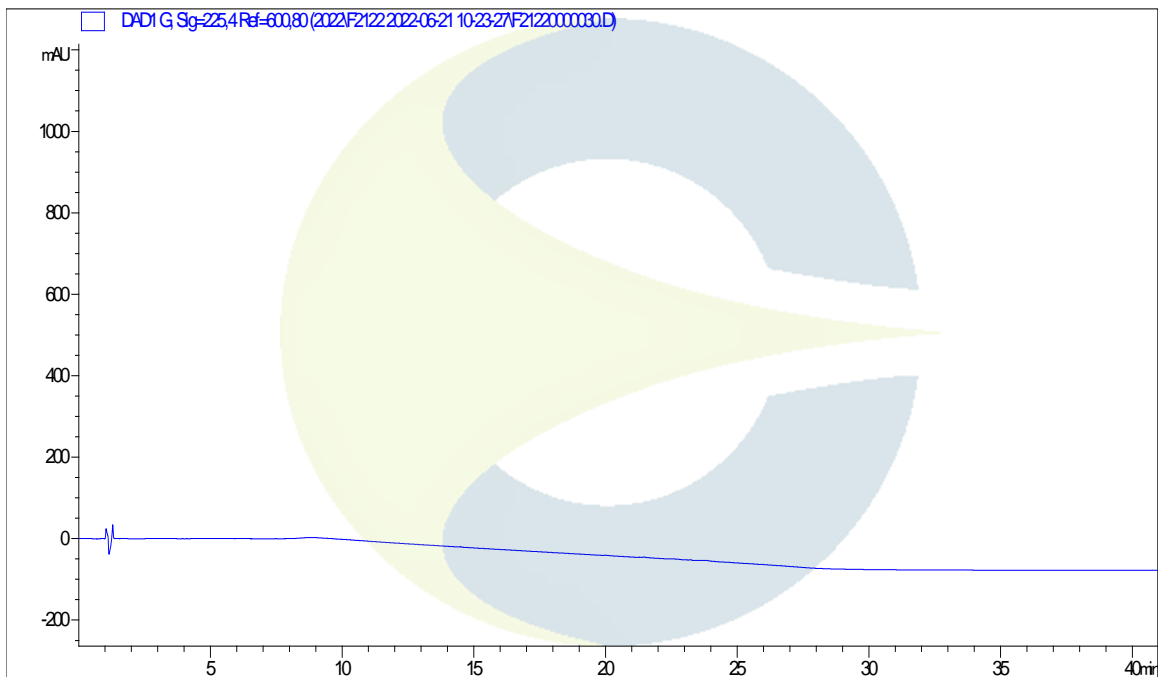
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UV SPECTRUM AT RT = 13.9 MINUTES



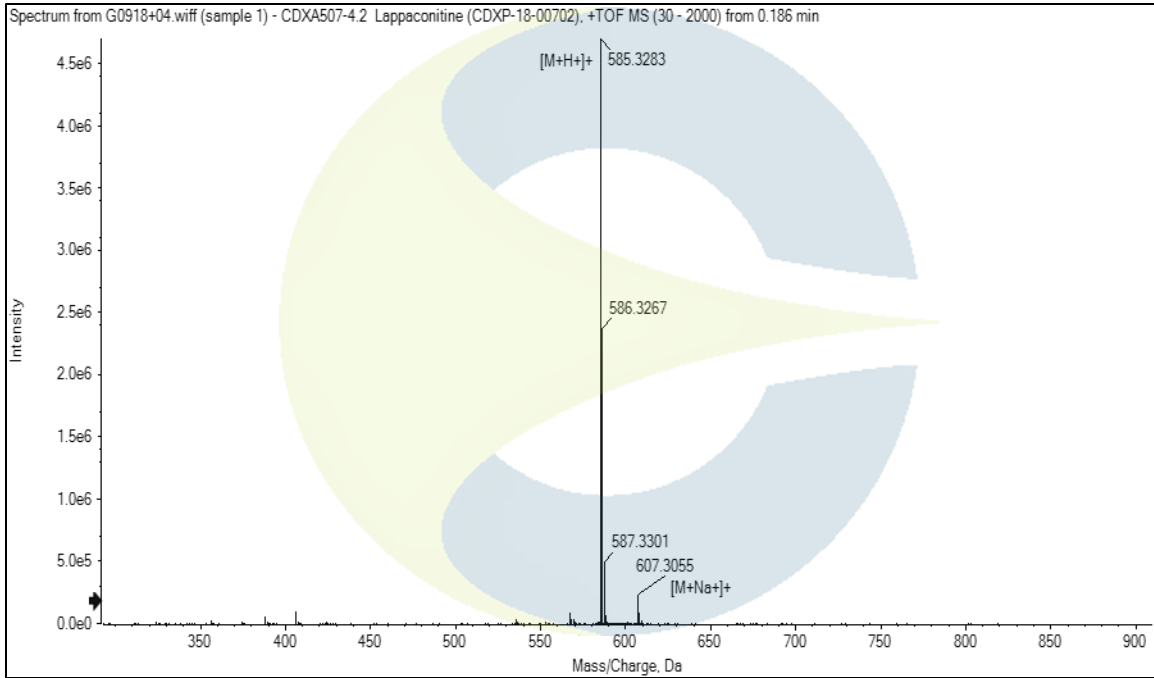
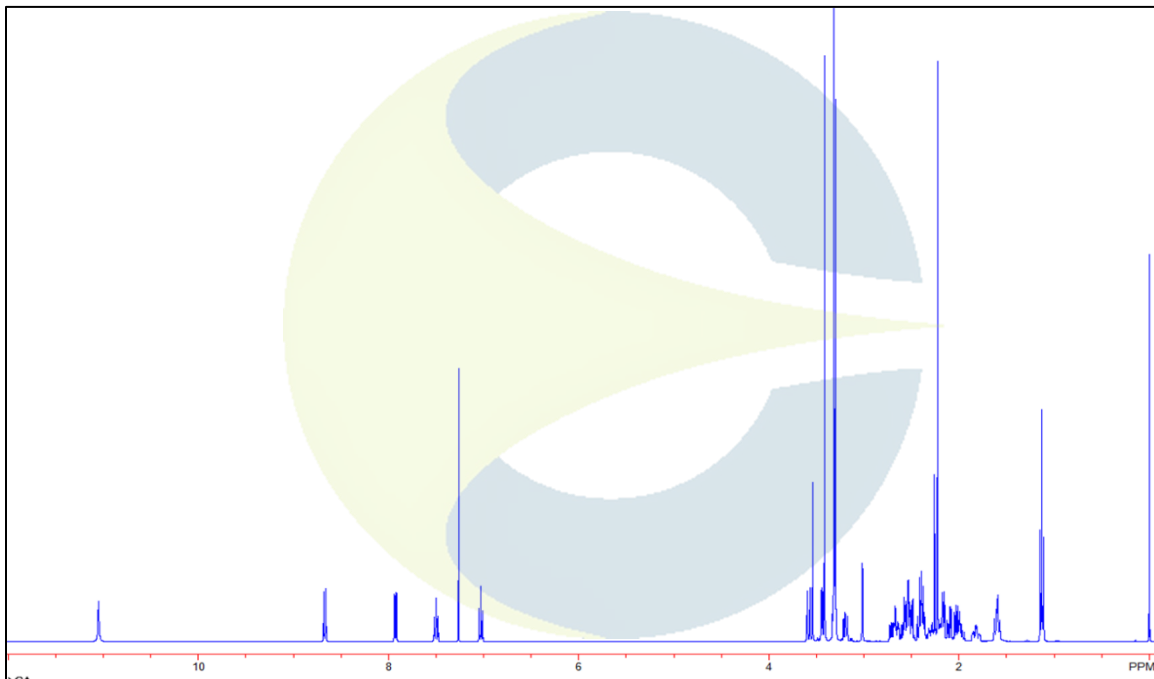
HPLC CHROMATOGRAM OF DILUENT BLANK



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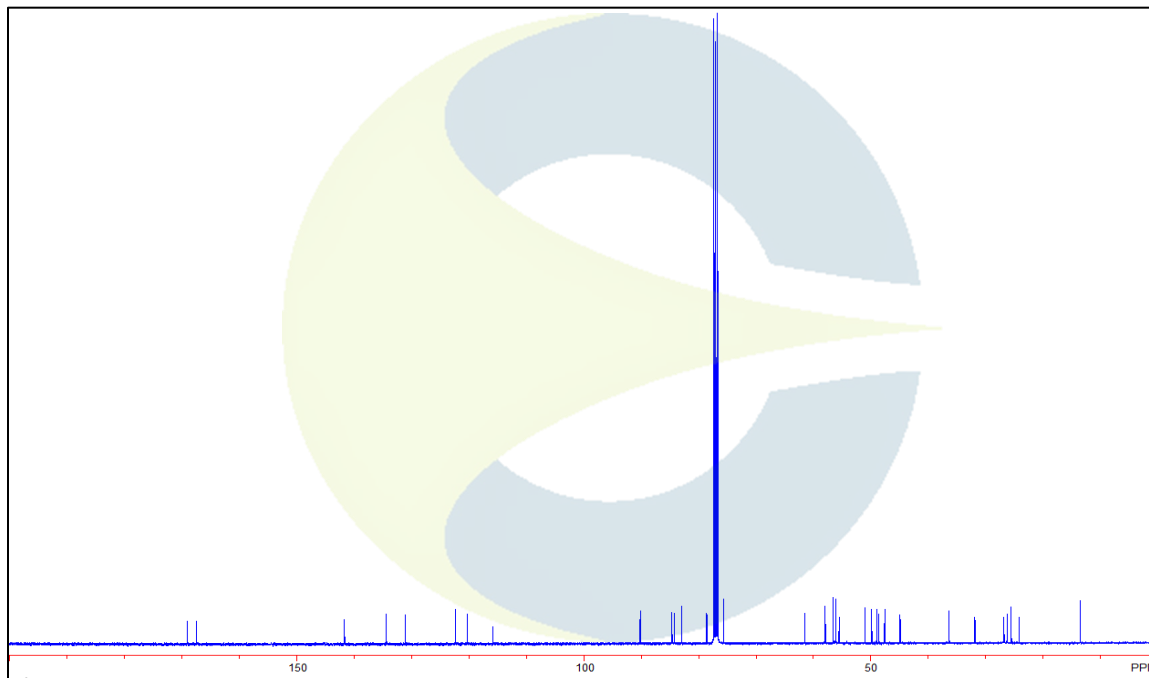
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306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

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MASS SPECTRUM OF LAPPACONITINE (CDXP-18-00702)

¹H-NMR SPECTRUM OF LAPPACONITINE (CDXP-18-00702) IN CDCl₃


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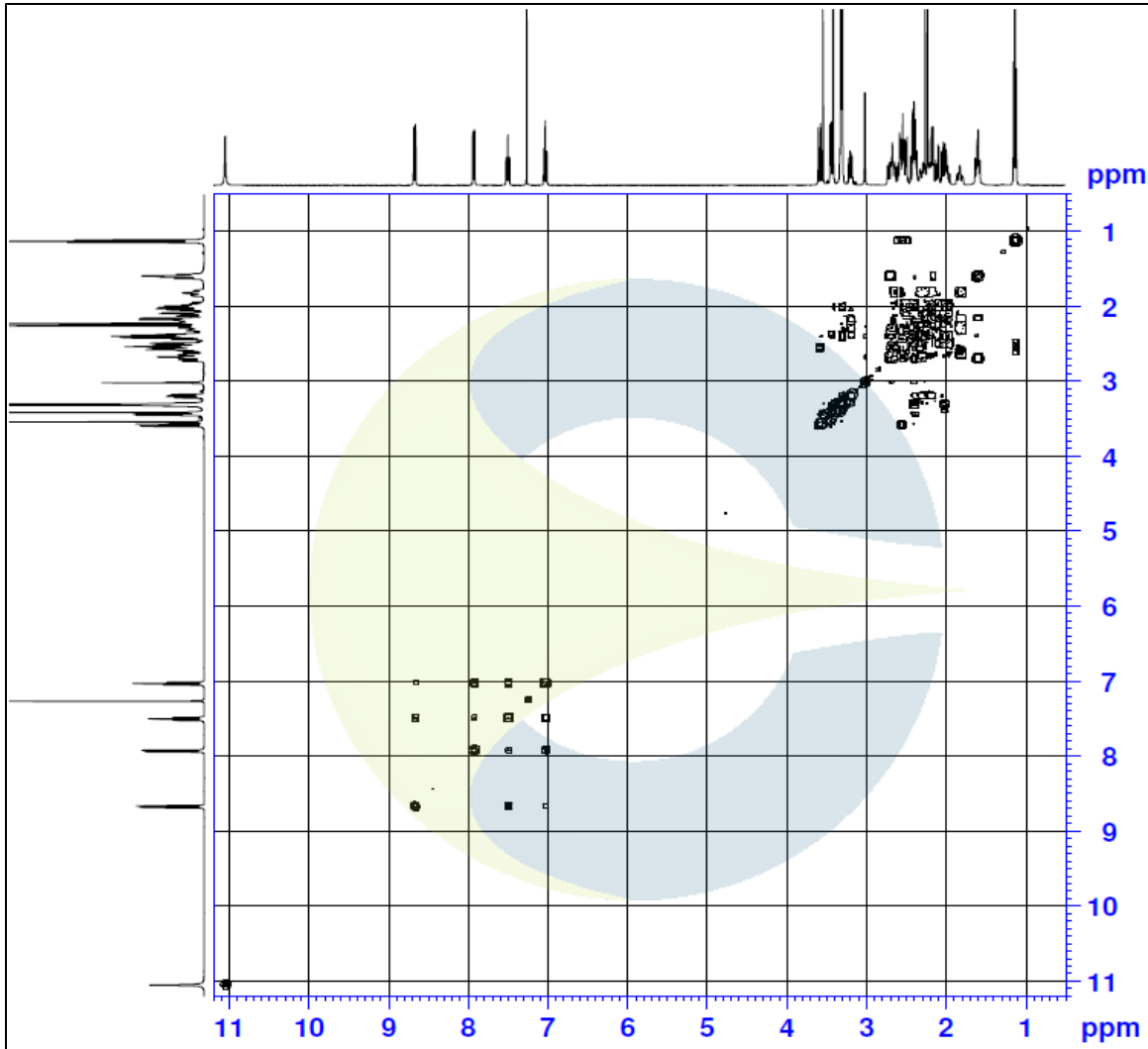
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¹³C-NMR SPECTRUM OF LAPPACONITINE (CDXP-18-00702) IN CDCl₃

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COSY-NMR SPECTRUM OF LAPPACONITINE (CDXP-18-00702) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	07/24/2018	New report
01	07/13/2022	Passed re-evaluation by HPLC, KF. Updated expiration date, structure, analytical results, analytical conditions, and chromatograms.

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