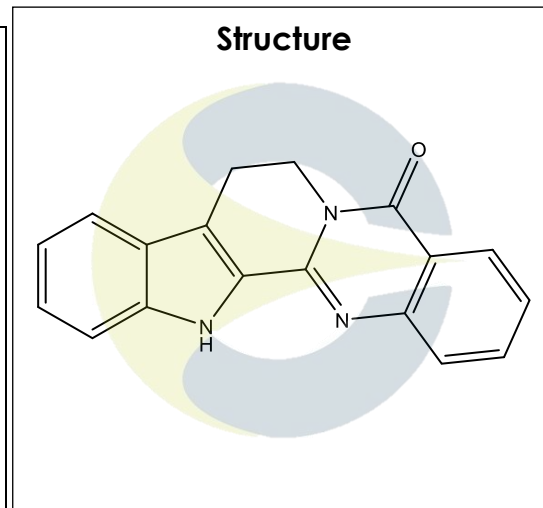


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PRODUCT NAME	Rutaecarpine
PART NUMBER	00018425
STANDARD TYPE	Primary (P)
LOT NUMBER	00018425-430
REPORT NUMBER	CDXA-RSS-7840-01
SAMPLE NUMBER	CDXP-18-00064
DATE OF SAMPLE	02/06/2018
DATE OF RE-EVALUATION	01/07/2022
DATE OF REPORT	02/03/2022



CHEMICAL NAMES	8,13-dihydro-Indolo(2',3':3,4)pyrido(2,1-b)quinazolin-5(7H)-one; Ruteine
CHEMICAL FORMULA	C ₁₈ H ₁₃ N ₃ O
MOLECULAR WEIGHT (MW)	287.32
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[84-26-4]
EC#(EINECS)	635-907-6
RTECS	NM3454000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.0%
HPLC	0.700.10.2.METH22	≥ 90%	99.0%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Light yellow powder

ADJUSTED PURITY: 99.0% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.0% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	01/2027 under the above conditions.

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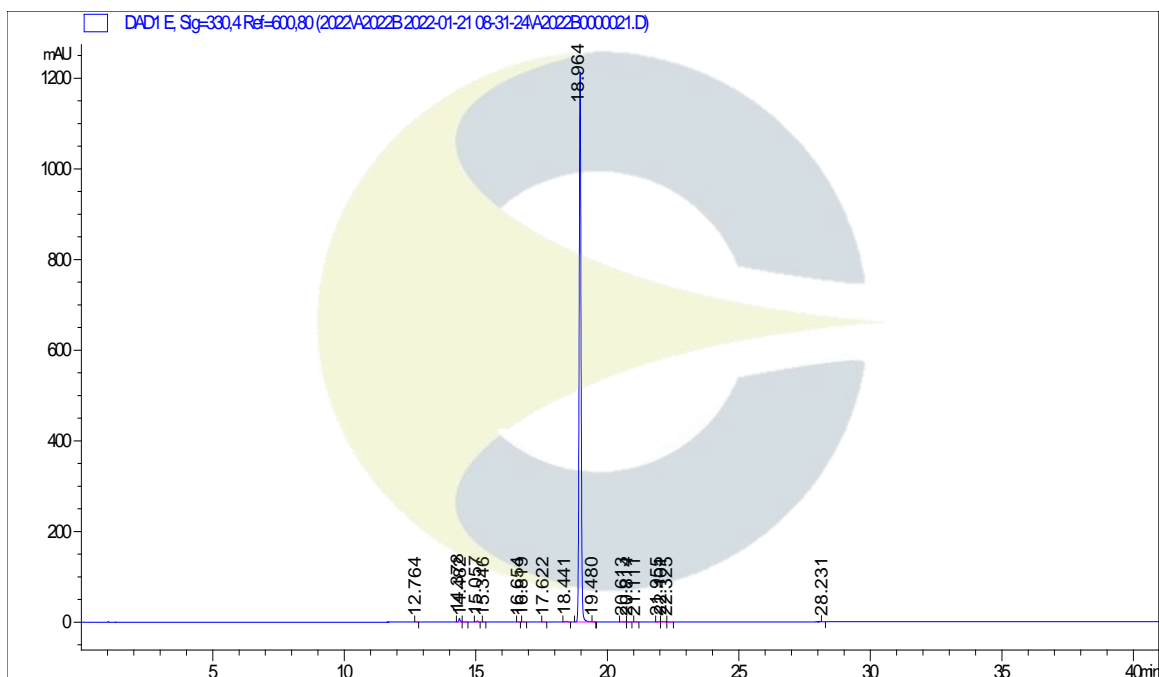
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ANALYTICAL CONDITIONS

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.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.4 µL
INJECTION CONC.	1.0 mg/mL in Dimethyl sulfoxide
DETECTION	330 ± 2 nm

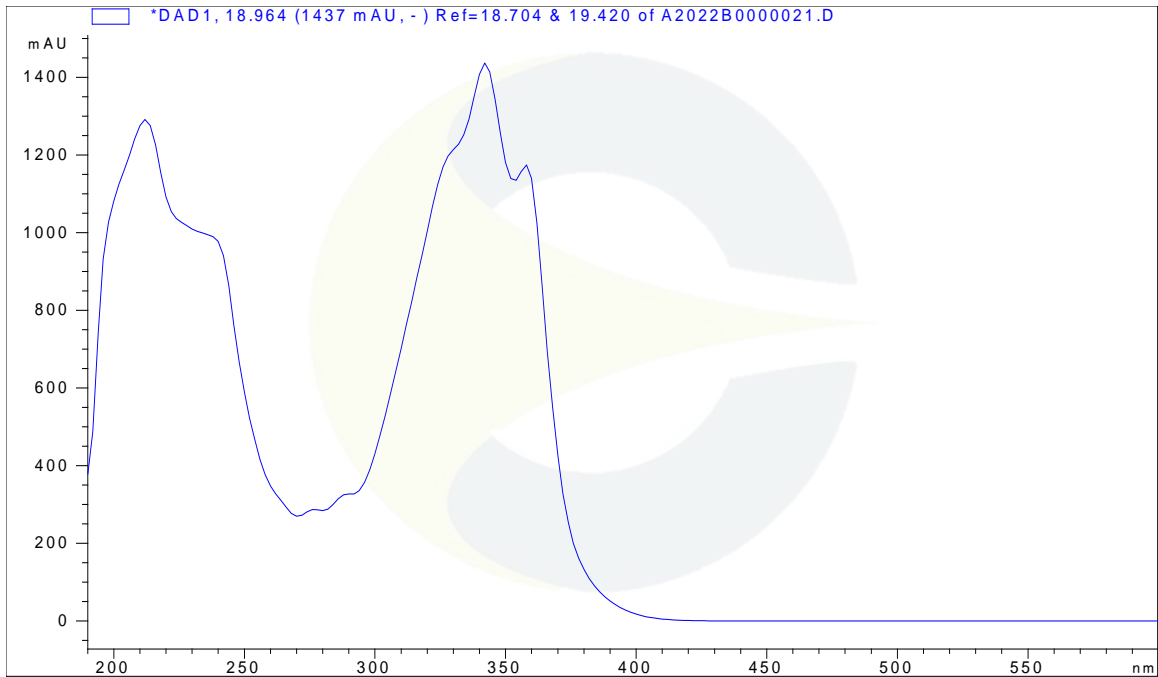
HPLC CHROMATOGRAM OF RUTAECARPINE (CDXP-18-00064)



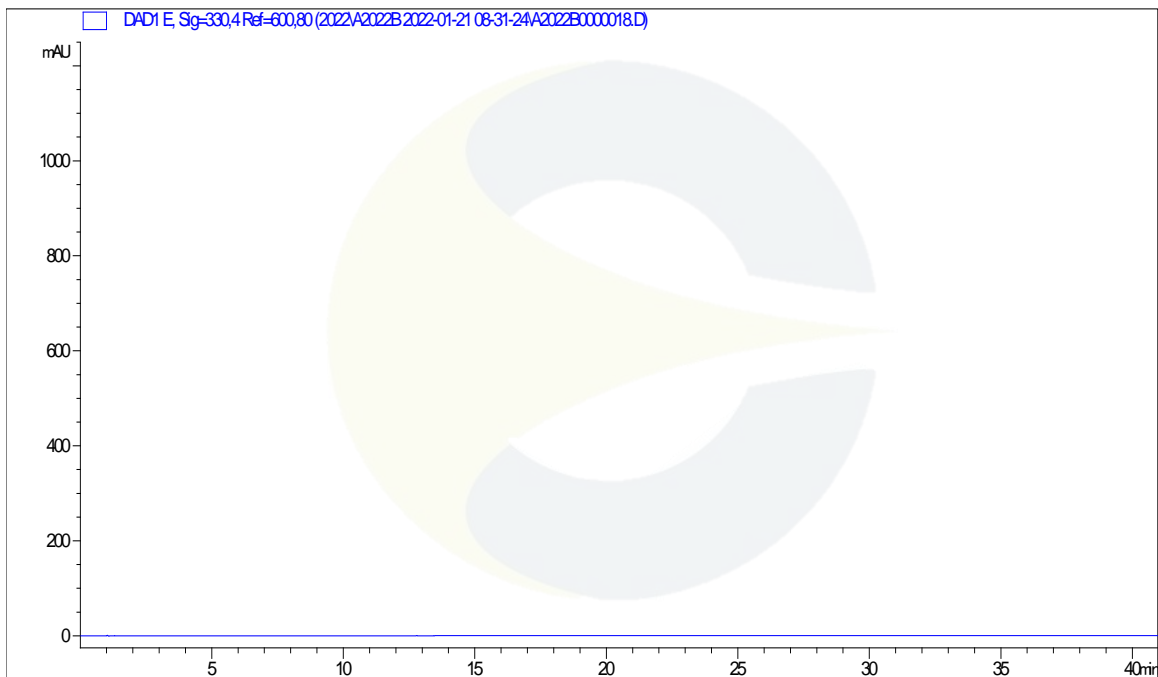
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UV SPECTRUM AT RT = 19.0 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

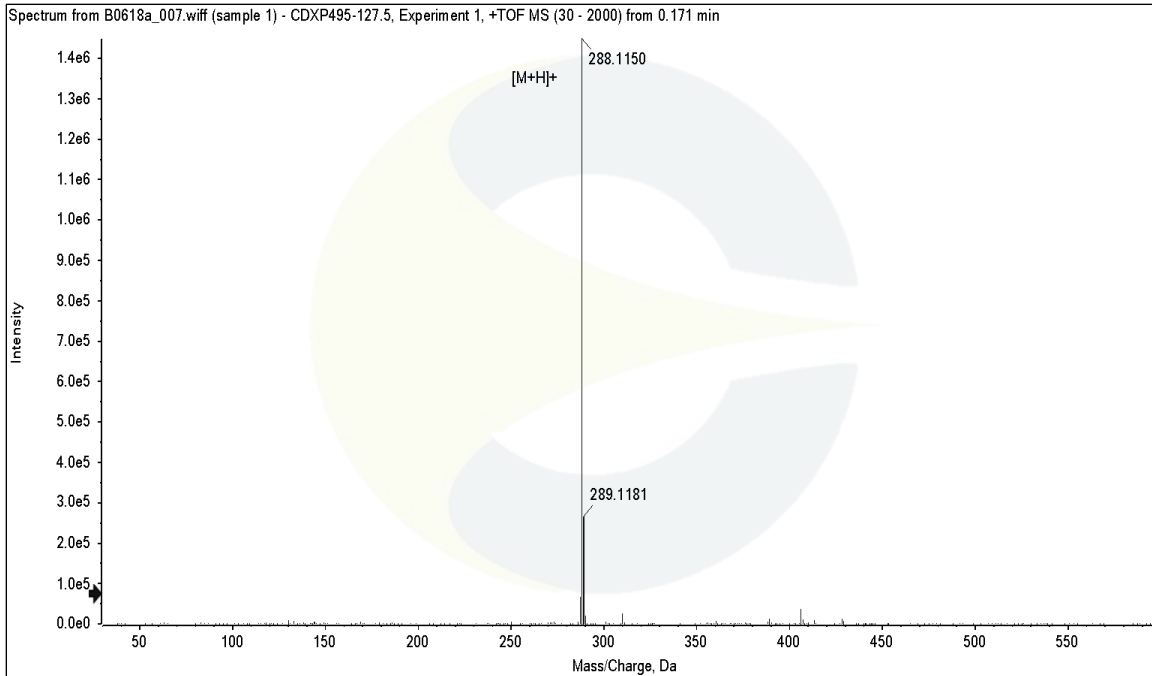


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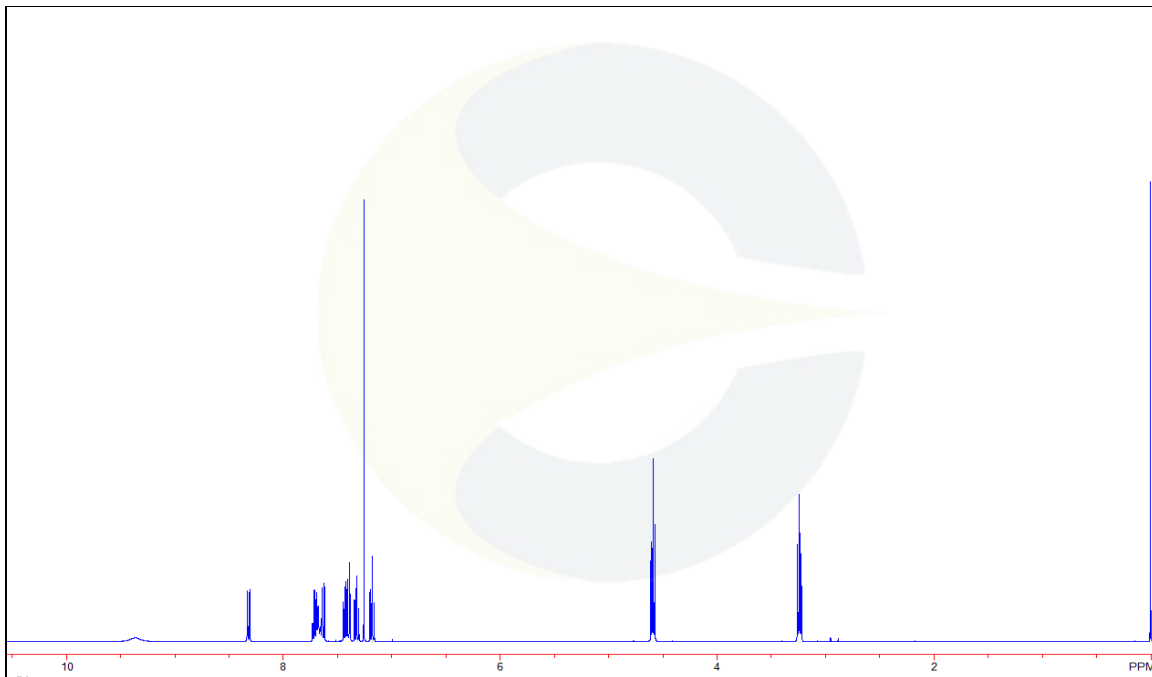
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Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

MASS SPECTRUM OF RUTAECARPINE (CDXP-18-00064)



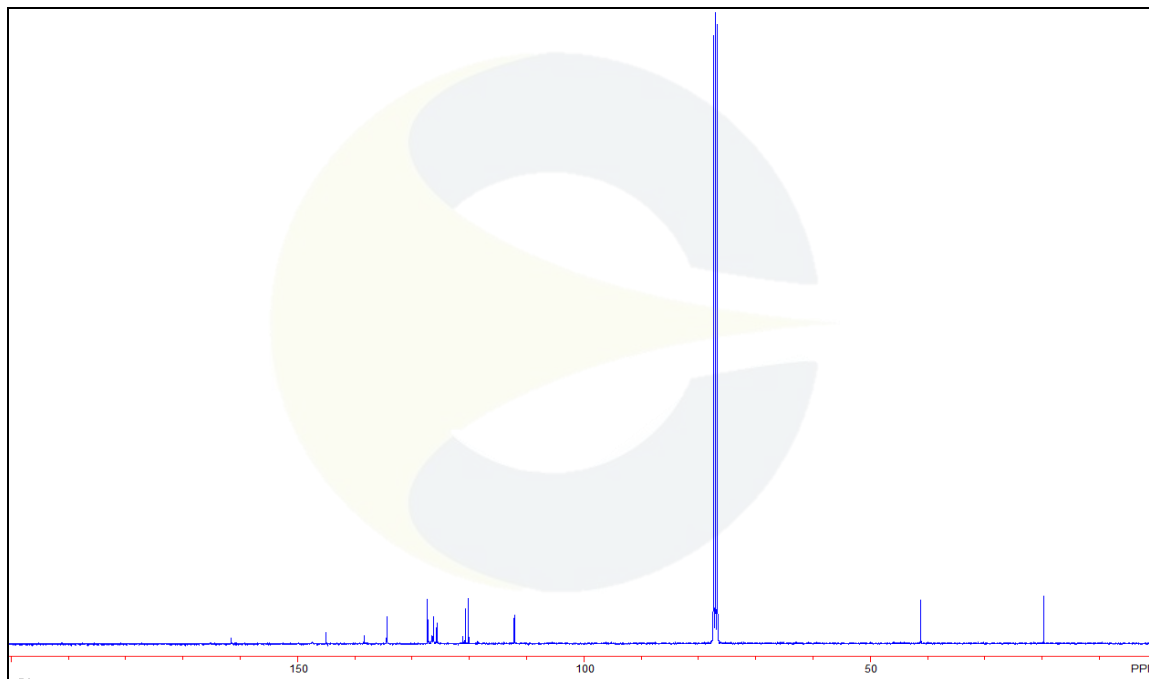
¹H-NMR SPECTRUM OF RUTAECARPINE (CDXP-18-00064) IN CDCl₃



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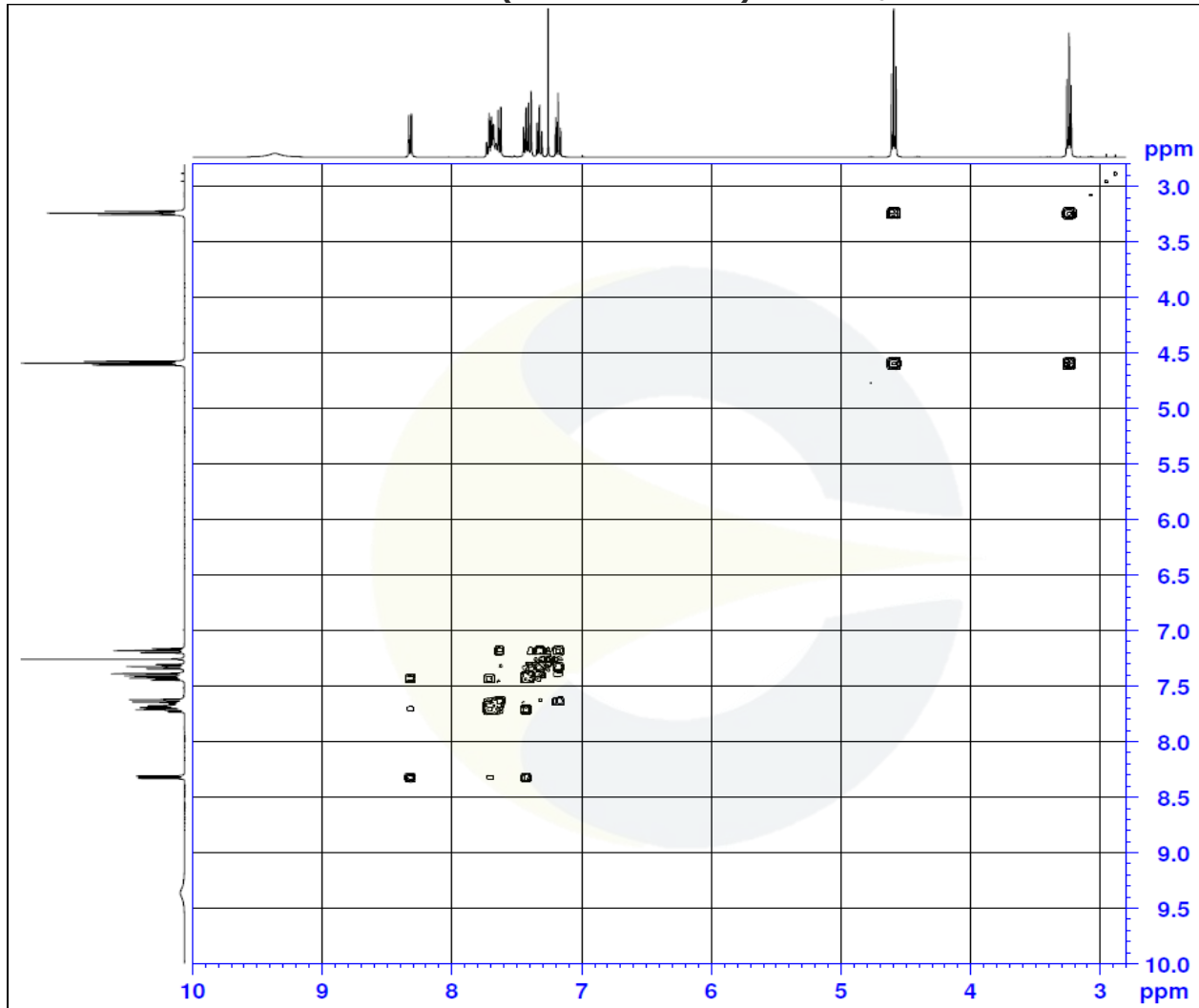
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¹³C-NMR SPECTRUM OF RUTAECARPINE (CDXP-18-00064) IN CDCl₃

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COSY-NMR SPECTRUM OF RUTAECARPINE (CDXP-18-00064) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/22/2018	New report
01	02/03/2022	Passed re-evaluation by HPLC and KF. Updated results, chromatograms, EC#, and expiration date.

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