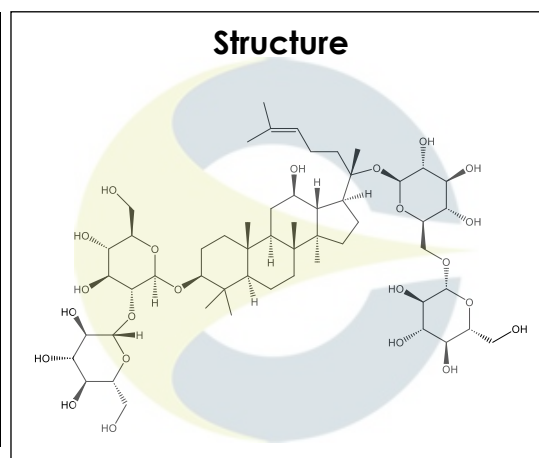


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PRODUCT NAME	Ginsenoside Rb1
PART NUMBER	00007190
STANDARD TYPE	Primary (P)
LOT NUMBER	00007190-201A
REPORT NUMBER	CDXA-RSS-10089-00
SAMPLE NUMBER	CDXP-23-00099
DATE OF SAMPLE	02/07/2023
DATE OF REPORT	02/28/2023



CHEMICAL NAMES	(3β,12β)-20-[(6-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-β-D-glucopyranosyl-β-D-glucopyranoside; Arasaponin E ₁ ; Gynosaponin C
CHEMICAL FORMULA	C ₅₄ H ₉₂ O ₂₃
MOLECULAR WEIGHT (MW)	1109.30
CHEMICAL FAMILY	Saponins
CAS NUMBER	[41753-43-9]
EC#(EINECS)	255-532-8
RTECS	LZ5856000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	93.0%
HPLC	0.700.10.2.METH102	≥ 90%	96.0%
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	3.1%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 93.0% IS BASED ON (100 - 0.0 SOLVENTS - 3.1 WATER) X 96.0% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	02/2028 under the above conditions.

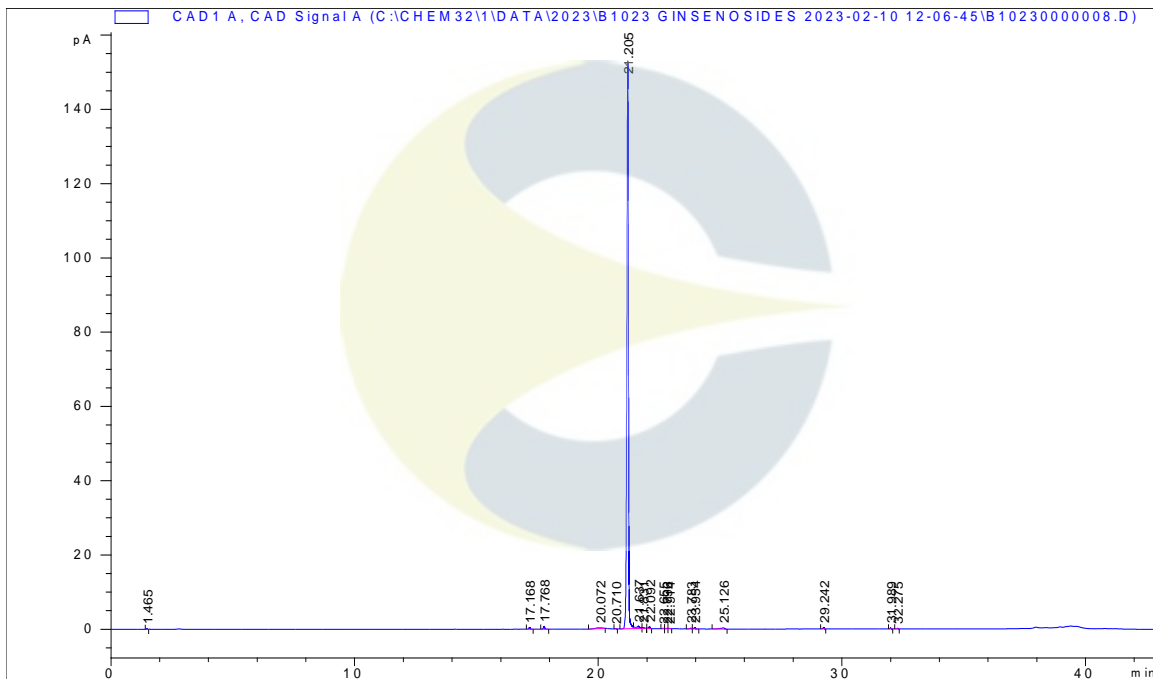
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ANALYTICAL CONDITIONS

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 - Ultrapure water, B - Acetonitrile; Start at 15% B then increasing to 30% B over 15 minutes, then increasing to 32% B over one minute, then increasing to 38% B over 3 minutes, then increasing to 43% B over 5 minutes, then increasing to 55% B over 3 minutes, then increasing to 65% B over 4 minutes, then increasing to 70% B over 4 minutes and then increasing to 90% B over 3 minutes. Decrease to 15% B over one minute and then hold for 4 minutes.
COLUMN TEMP.	40 °C
FLOW RATE	1.5 mL/minute
INJECTION VOL.	5.0 µL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	CAD

HPLC CHROMATOGRAM OF GINSENOSE RB1 (CDXP-23-00099)



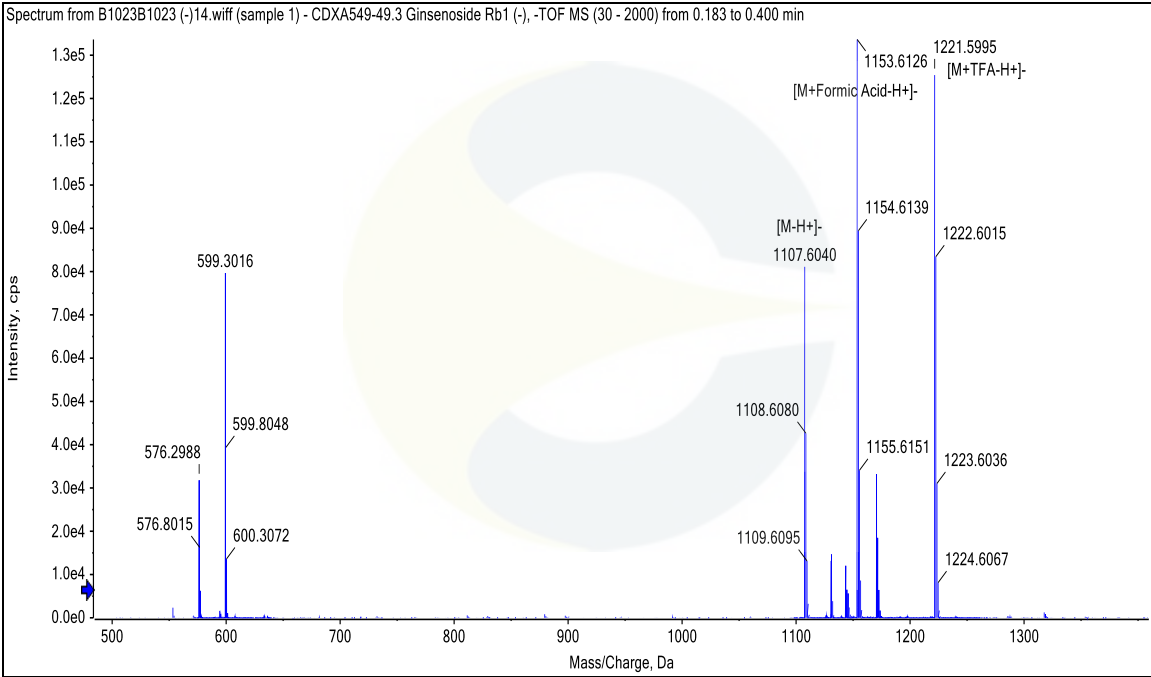
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HPLC CHROMATOGRAM OF DILUENT BLANK



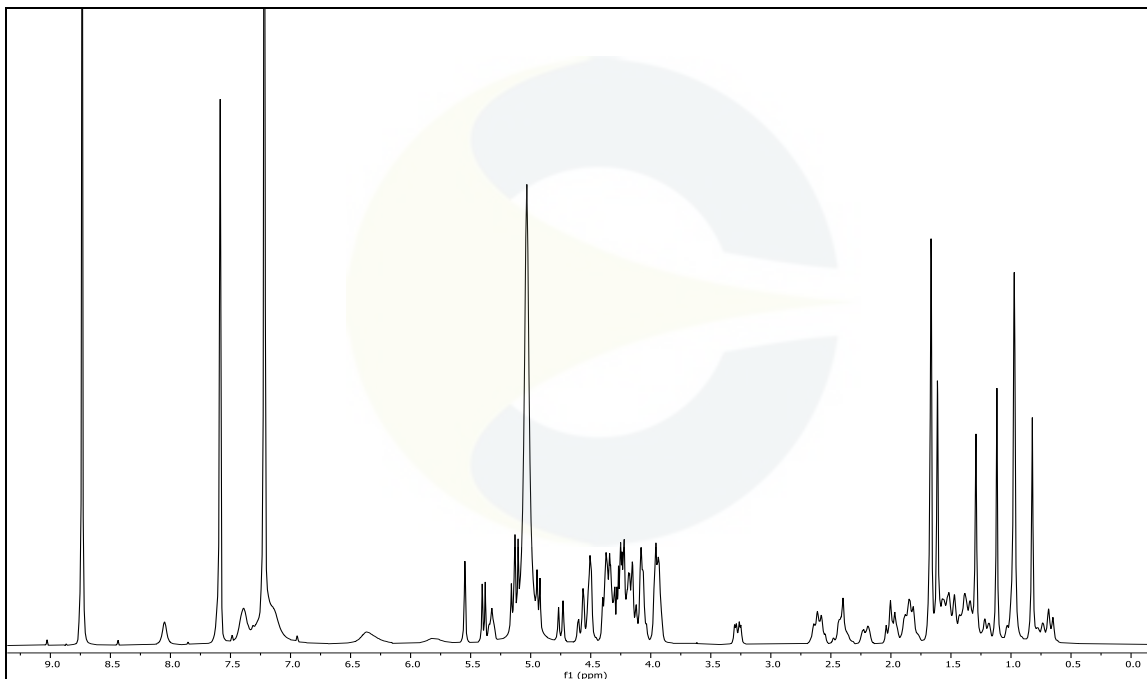
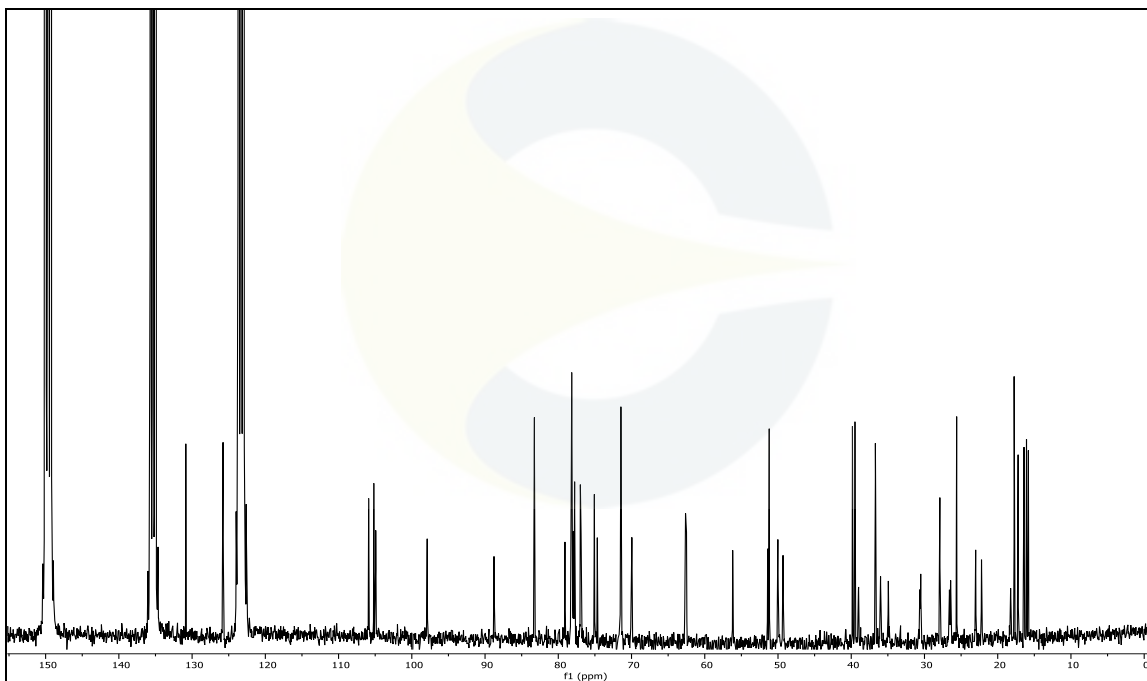
MASS SPECTRUM OF GINSENOSE RB1 (CDXP-23-00099)



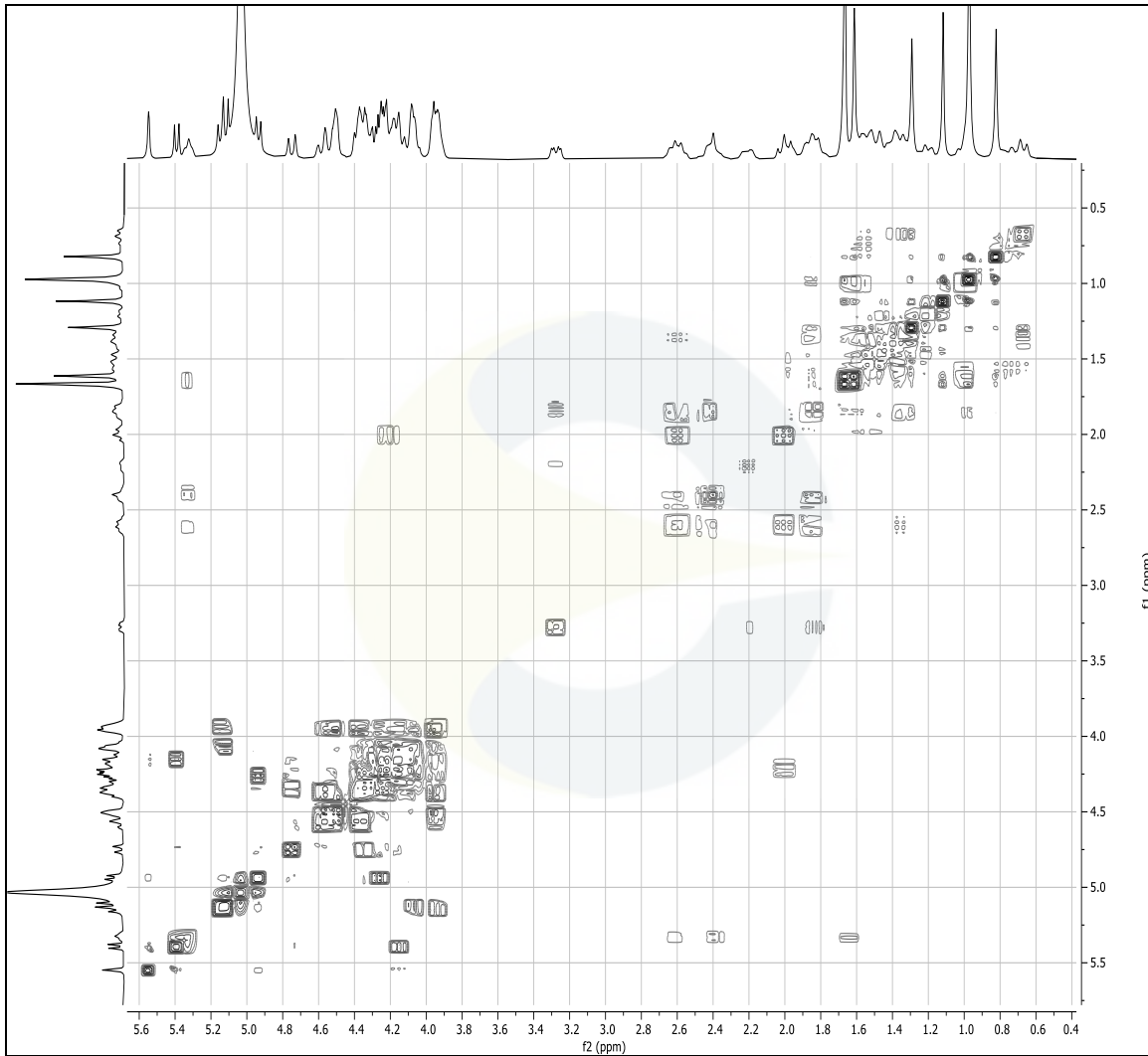
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 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

¹H-NMR SPECTRUM OF GINSENOSE RB1 (CDXP-23-00099) IN PYRIDINE-d₅**¹³C-NMR SPECTRUM GINSENOSE RB1 (CDXP-23-00099) IN PYRIDINE-d₅**

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COSY-NMR SPECTRUM OF GINSENOSE RB1 (CDXP-23-00099) IN PYRIDINE-d₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/28/2023	New report

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