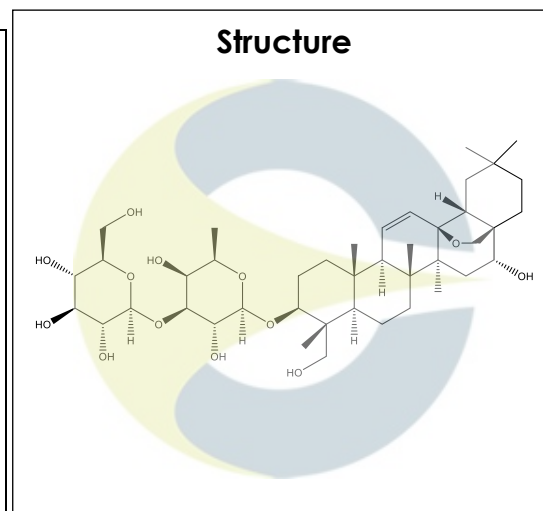


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PRODUCT NAME	Saikosaponin D
PART NUMBER	00019020
STANDARD TYPE	Primary (P)
LOT NUMBER	00019020-401
REPORT NUMBER	CDXA-RSS-7569-01
SAMPLE NUMBER	CDXA-17-006000
DATE OF SAMPLE	05/10/2017
DATE OF RE-EVALUATION	01/21/2022
DATE OF REPORT	03/14/2022



CHEMICAL NAMES	(3 β ,4 α ,16 α)-13,28-Epoxy-16,23-dihydroxyolean-11-en-3-yl 6-deoxy-3-O- β -D-glucopyranosyl- β -D-galactopyranoside
CHEMICAL FORMULA	C ₄₂ H ₆₈ O ₁₃
MOLECULAR WEIGHT (MW)	780.98
CHEMICAL FAMILY	Saponins
CAS NUMBER	[20874-52-6]
EC#(EINECS)	633-808-2
RTECS	VN3099000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	92.8%
HPLC	0.700.10.2.METH22	≥ 90%	98.1%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	MeOH - 0.4%; EtOH < 0.1%
Water	0.700.12.37	NA	5.0%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 92.8% IS BASED ON (100 - 0.4 SOLVENTS - 5.0 WATER) X 98.1% HPLC

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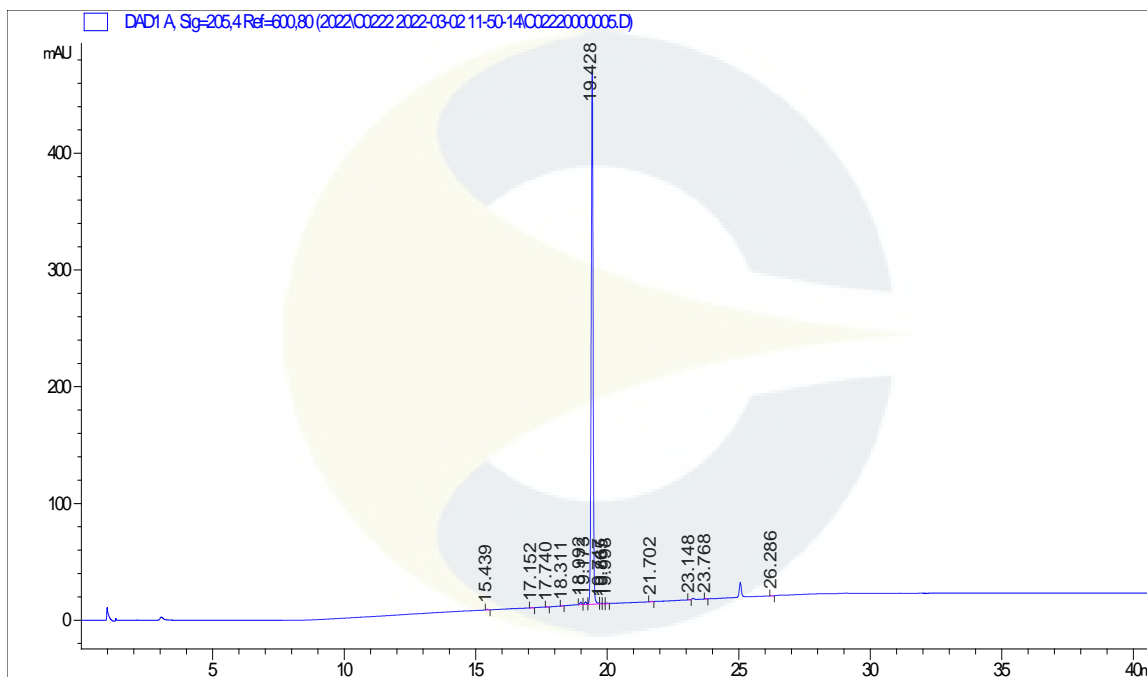
STORAGE CONDITIONS

STORAGE +4 °C in a dry place.
EXPIRATION DATE 01/2027 under the above conditions.

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
COLUMN Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE A - 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. 2.0 µL
INJECTION CONC. 1.5 mg/mL in Methanol
DETECTION 205 ± 2 nm

HPLC CHROMATOGRAM OF SAIKOSAPONIN D (CDXA-17-006000)

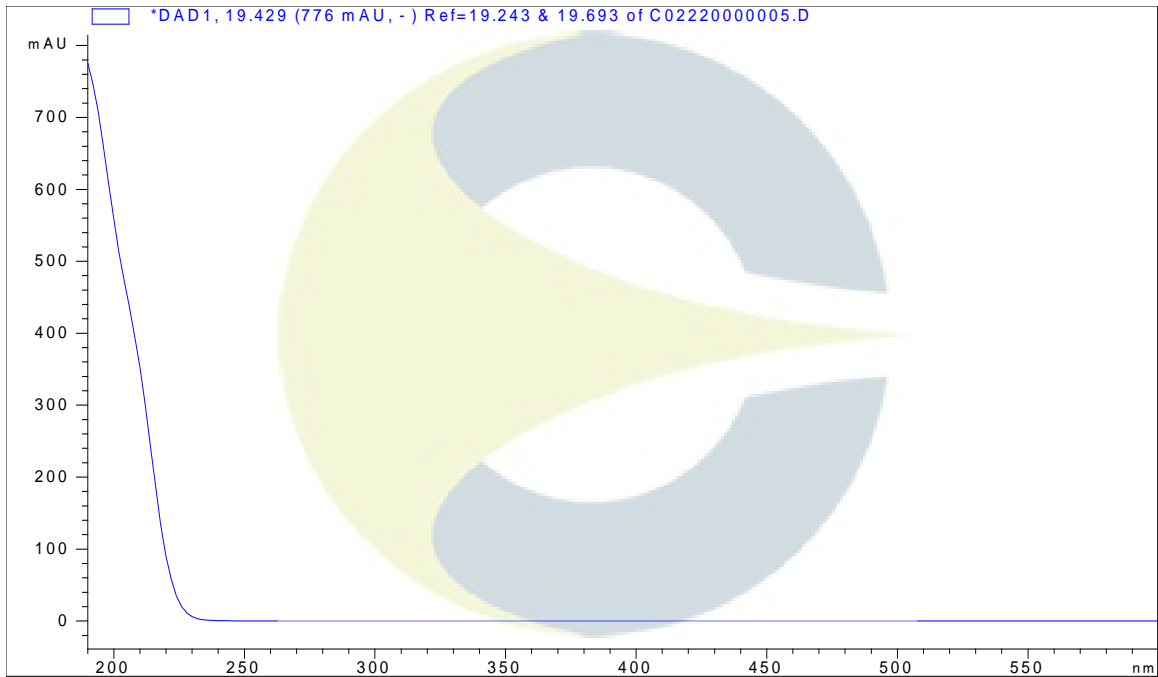


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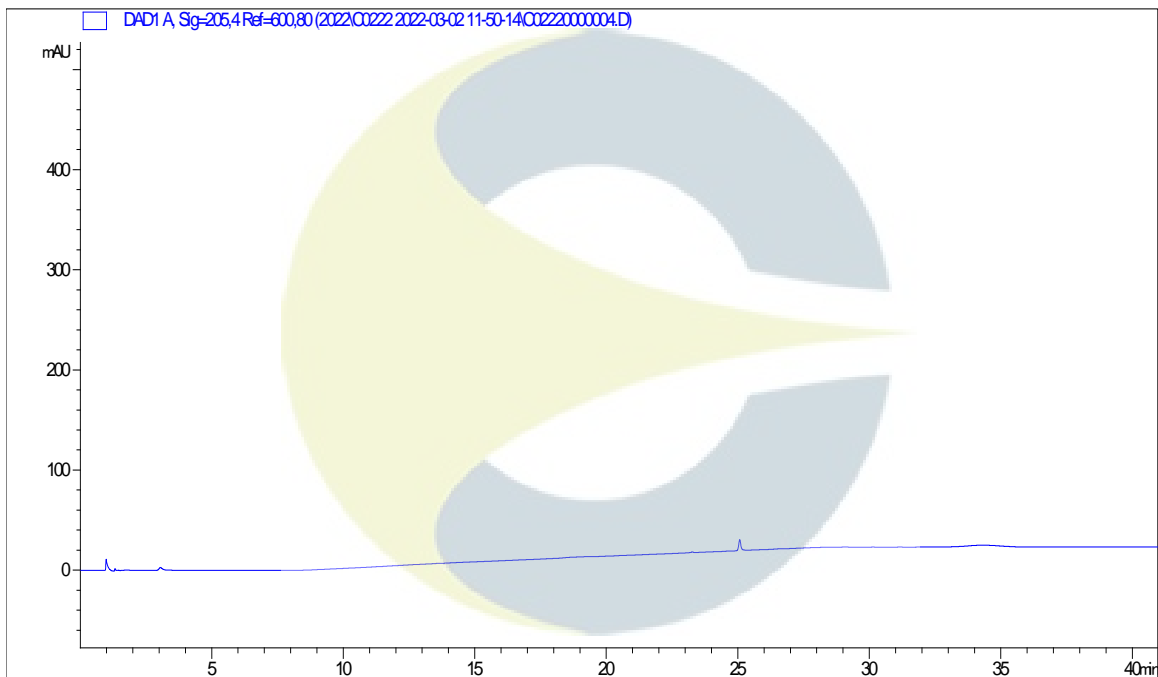
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UV SPECTRUM AT RT = 19.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

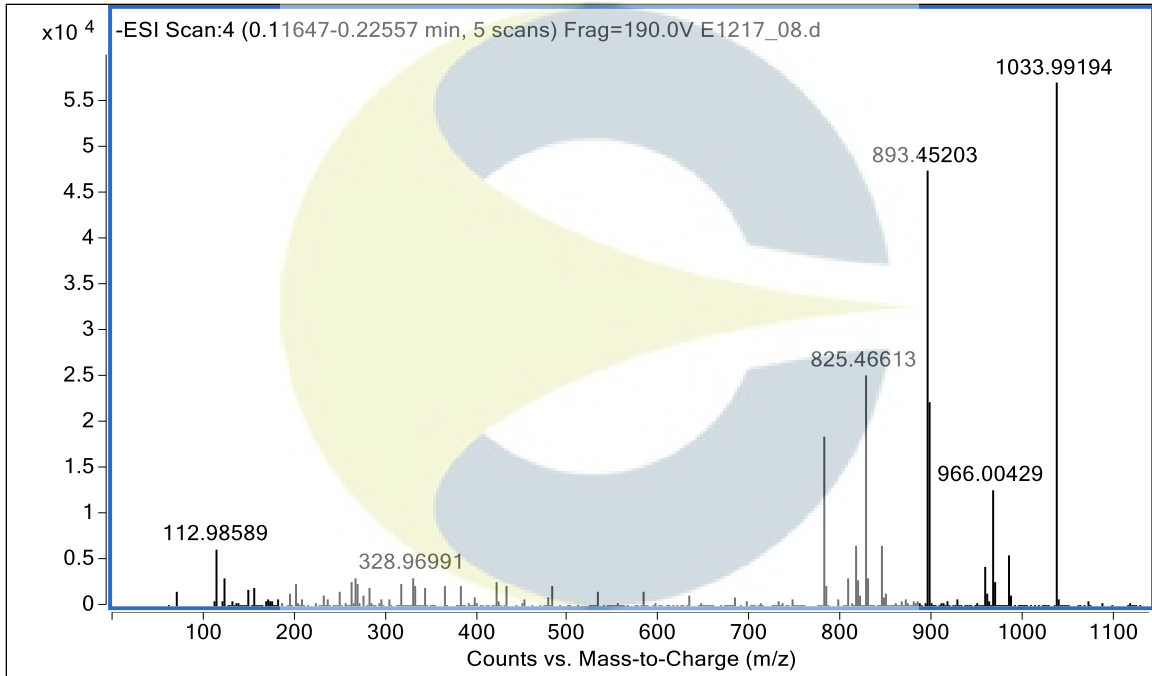


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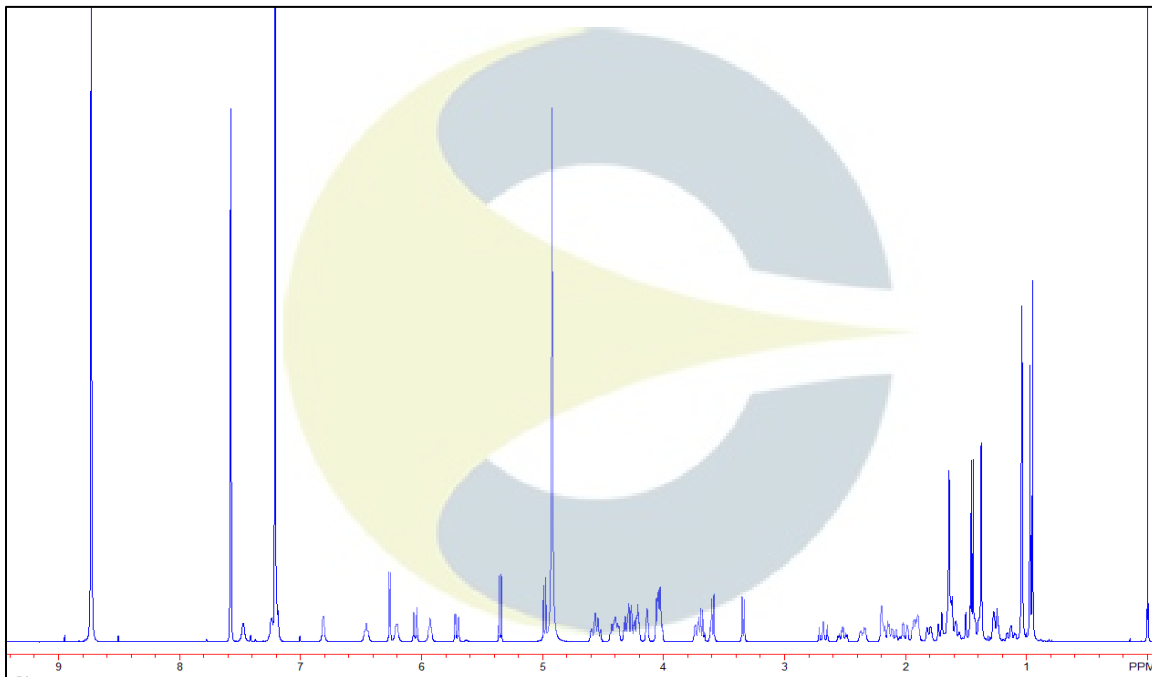
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 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

MASS SPECTRUM OF SAIKOSAPONIN D (CDXA-17-006000)



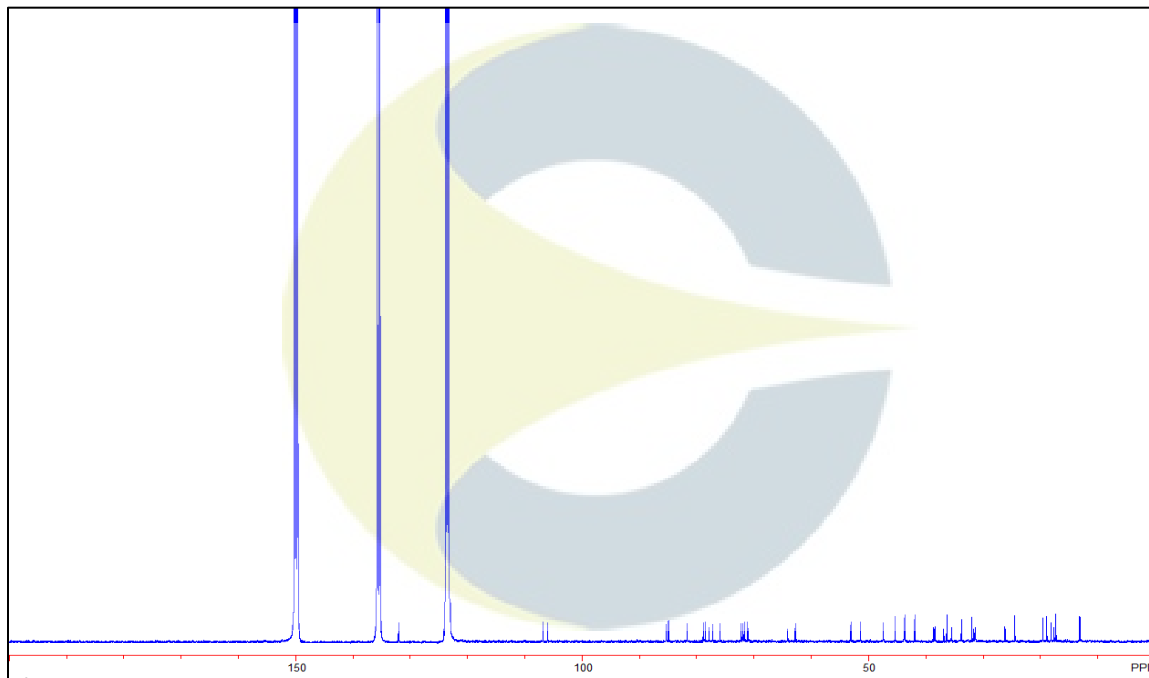
¹H-NMR SPECTRUM OF SAIKOSAPONIN D (CDXA-17-006000) IN PYRIDINE-d₅



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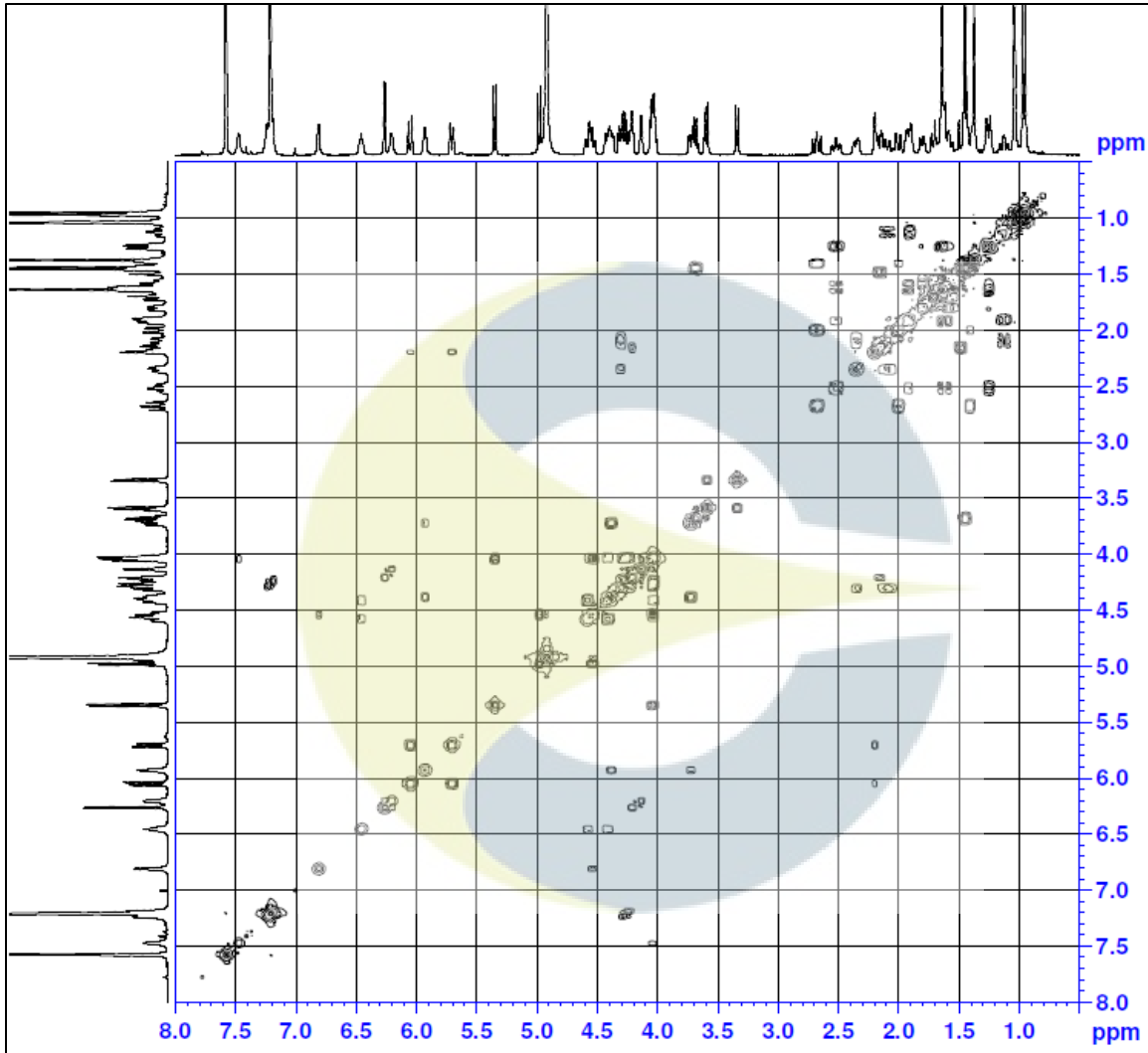
^{13}C -NMR SPECTRUM OF SAIKOSAPONIN D (CDXA-17-006000) IN PYRIDINE- d_5



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COSY-NMR SPECTRUM OF SAIKOSAPONIN D (CDXA-17-006000) IN PYRIDINE-*d*₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	06/13/2017	New report
01	03/14/2022	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms. Added EC#.

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