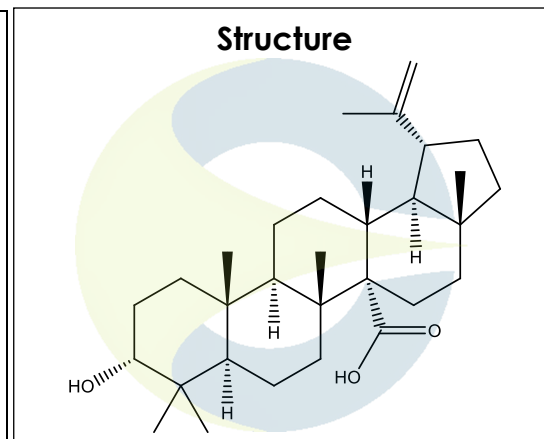


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PRODUCT NAME	Bacosine
PART NUMBER	00002012
STANDARD TYPE	Primary (P)
LOT NUMBER	00002012-00704
REPORT NUMBER	CDXA-RSS-9912-00
SAMPLE NUMBER	CDXP-22-00704
DATE OF SAMPLE	08/09/2022
DATE OF REPORT	09/20/2022



CHEMICAL NAMES	(3 α)-3-Hydroxylup-20(29)-en-27-oic acid; Bacosin
CHEMICAL FORMULA	C ₃₀ H ₄₈ O ₃
MOLECULAR WEIGHT (MW)	456.70
CHEMICAL FAMILY	Triterpenes
CAS NUMBER	[198014-94-7]
EC#(EINECS)	NA
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	94.5%
HPLC	0.700.10.2.METH22	≥ 90%	97.9%
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms
Residual Solvent	99.1-CD-7.0-000115	NA	MeOH – 0.2%
Water	0.700.12.37	NA	3.3%
Appearance	NA	NA	White Powder

ADJUSTED PURITY: 94.5% IS BASED ON (100 - 0.2 SOLVENTS - 3.3 WATER) X 97.9% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	08/2027 under the above conditions.

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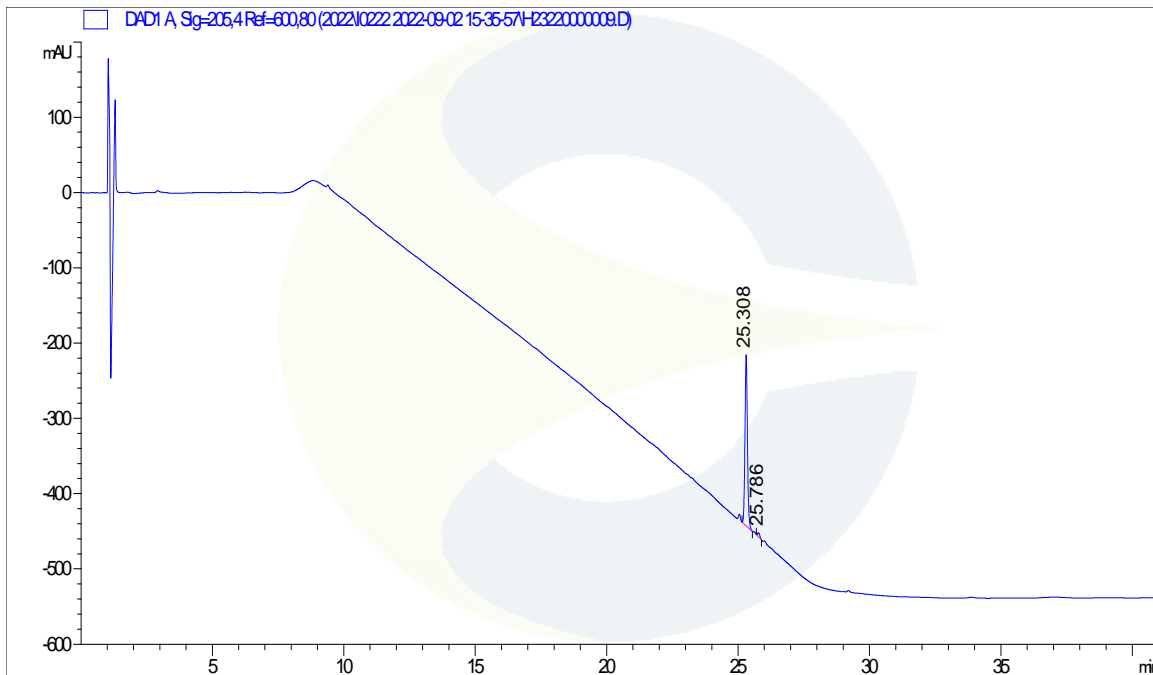
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ANALYTICAL CONDITIONS

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 - 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.	1.0 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	205 ± 4 nm

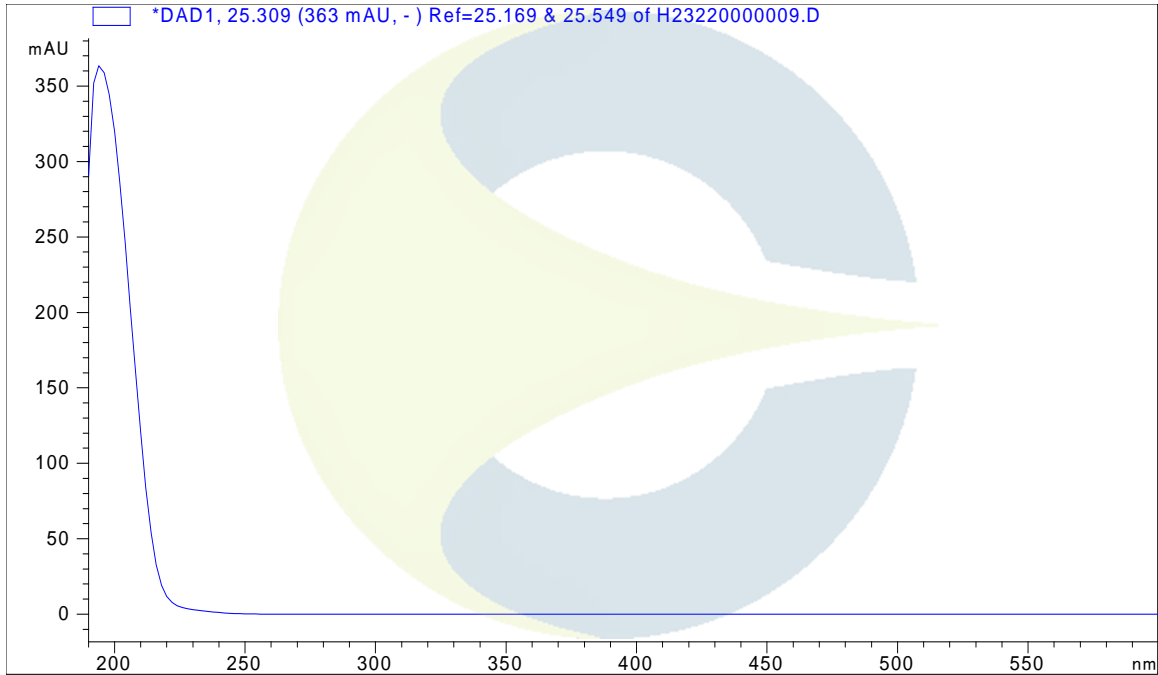
HPLC CHROMATOGRAM OF BACOSINE (CDXP-22-00704)



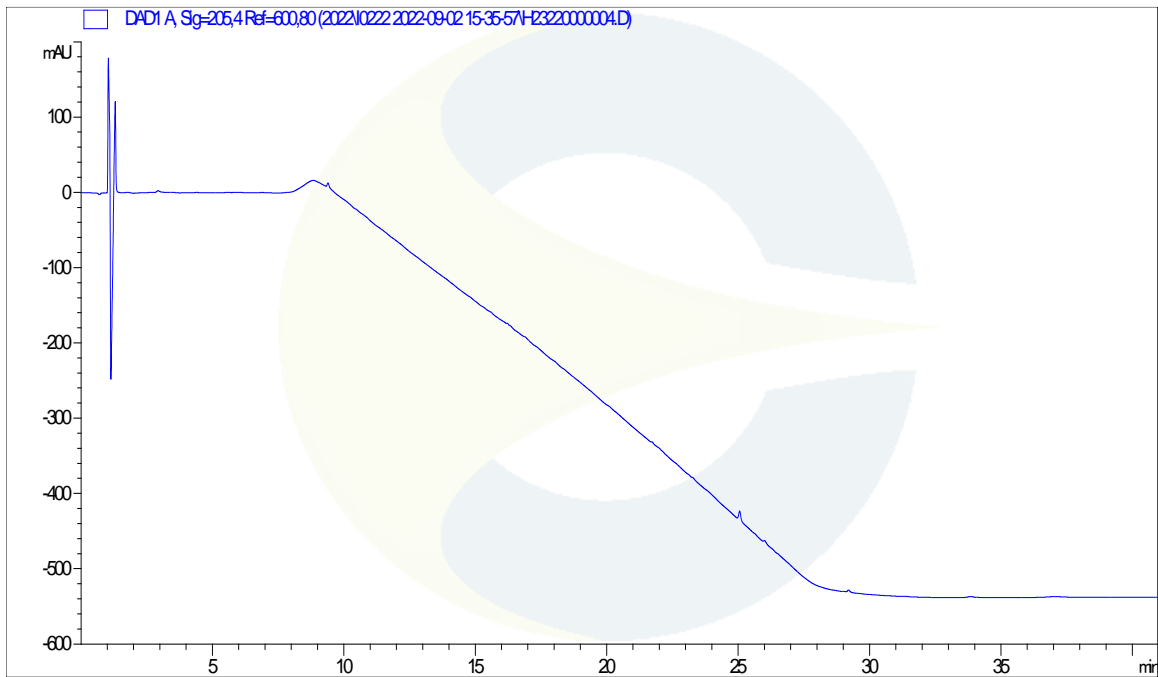
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UV SPECTRUM AT RT =25.3 MINUTES



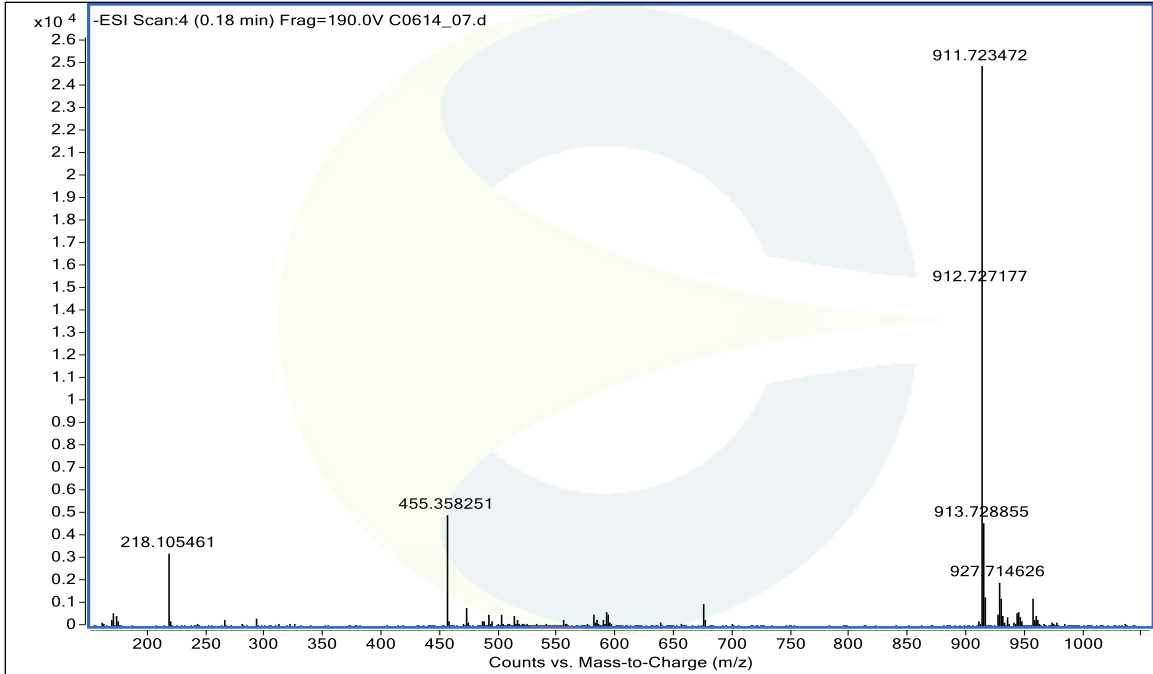
HPLC CHROMATOGRAM OF DILUENT BLANK



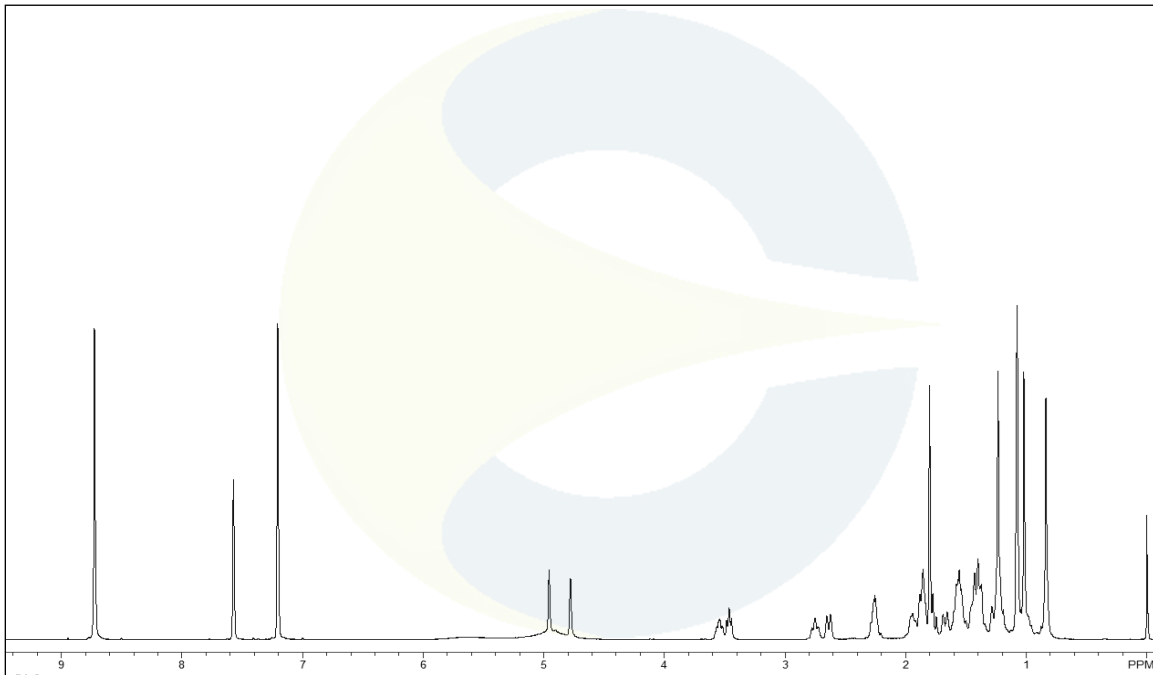
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MASS SPECTRUM OF BACOSINE (CDXP-22-00704)

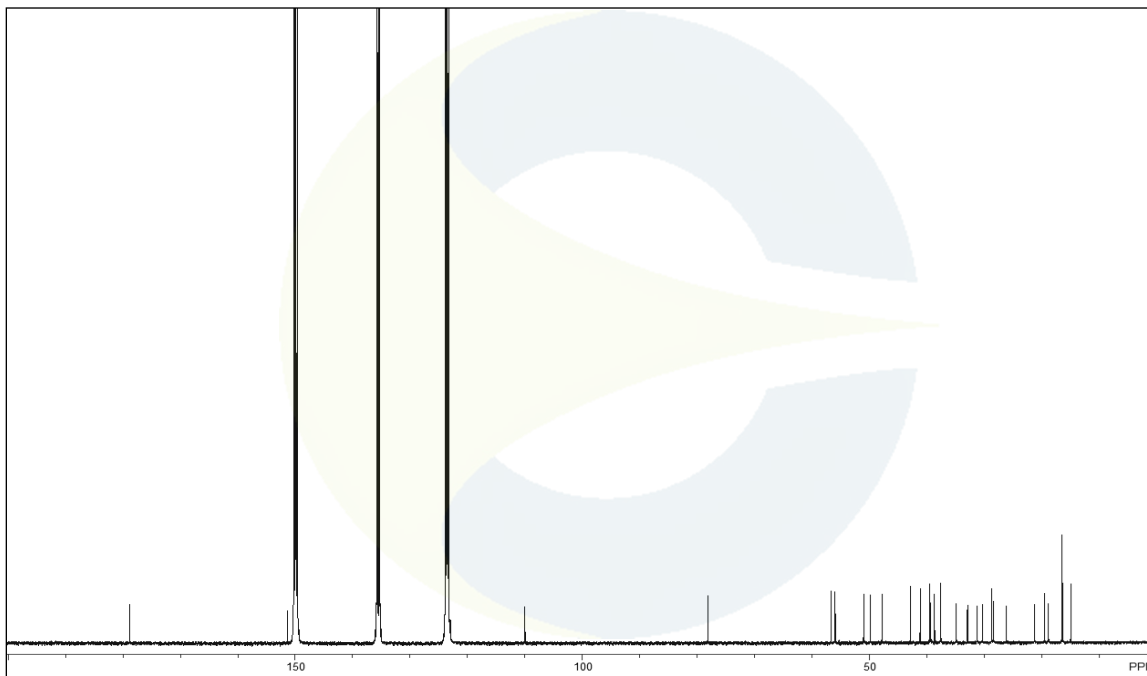


¹H-NMR SPECTRUM OF BACOSINE (CDXP-22-00704) IN PYRIDINE-d₅

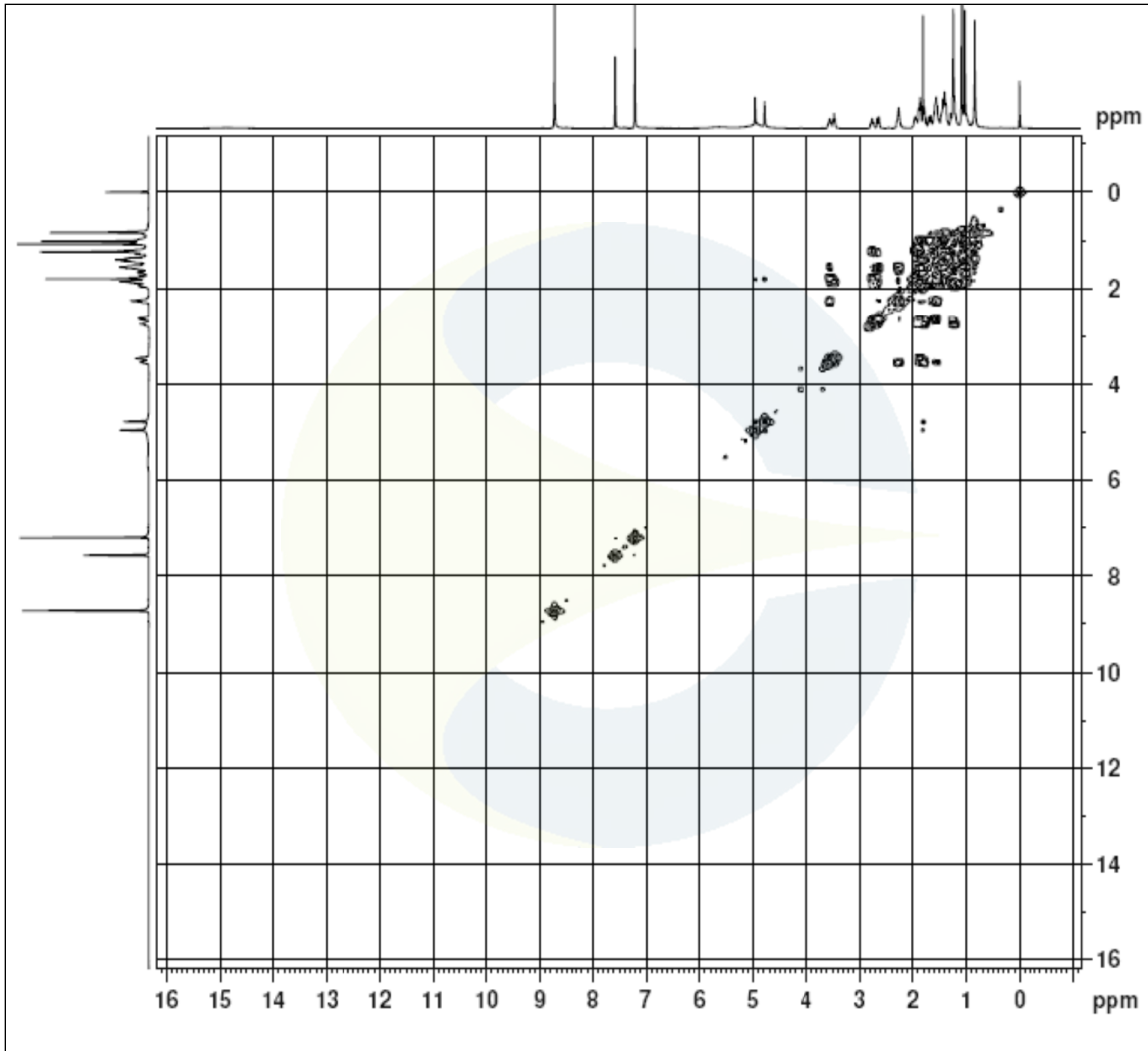


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¹³C-NMR SPECTRUM OF BACOSINE (CDXP-22-00704) IN PYRIDINE-d₅



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COSY-NMR SPECTRUM OF BACOSINE (CDXP-22-00704) IN PYRIDINE-d₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/20/2022	New report

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