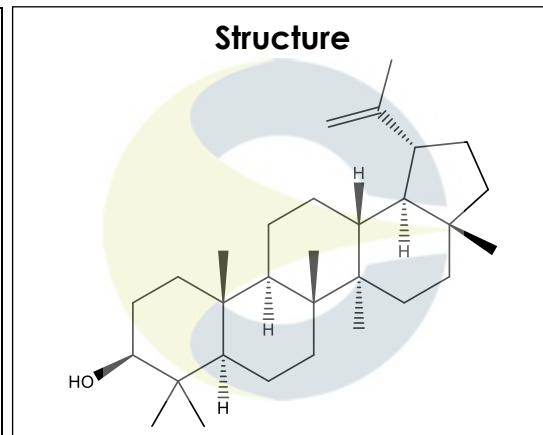


Certificate of Analysis

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PRODUCT NAME	Lupeol
PART NUMBER	00012392
STANDARD TYPE	Primary (P)
LOT NUMBER	00012392-724
REPORT NUMBER	CDXA-RSS-10475-00
SAMPLE NUMBER	CHA203576
DATE OF SAMPLE	22Feb2024
DATE OF REPORT	12Mar2024



CHEMICAL NAMES	(3β)-Lup-20(29)-en-3-ol; Clerodol; Fagarasterol; Lupenol; β-Viscol
CHEMICAL FORMULA	C ₃₀ H ₅₀ O
MOLECULAR WEIGHT (MW)	426.72
CHEMICAL FAMILY	Triterpenes
CAS NUMBER	[545-47-1]
EC#(EINECS)	208-889-9
RTECS	OK5763000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.9%
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	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	02/2029 under the above conditions.

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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;

Minutes	%A	%B
0.0	95	5
5.0	95	5
25.0	5	95
40.0	5	95
41.0	95	5

COLUMN TEMP. 60 °C

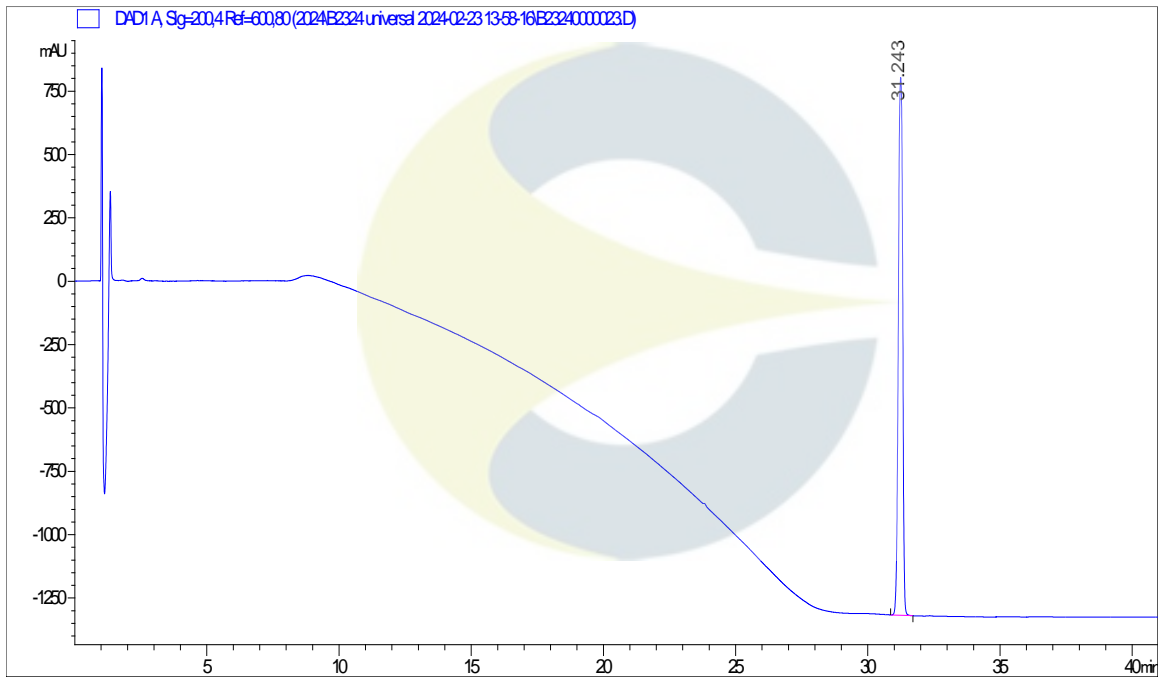
FLOW RATE 0.4 mL/minute

INJECTION VOL. 10.0 µL

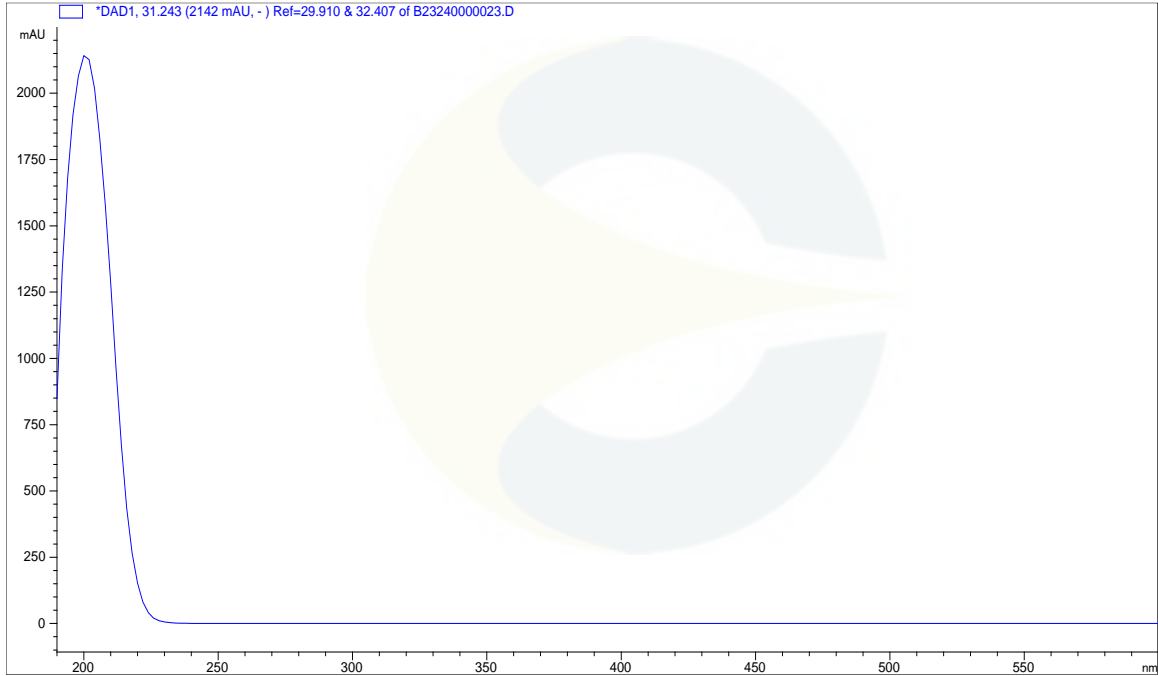
INJECTION CONC. 1.0 mg/mL in Methanol

DETECTION 200 ± 2 nm

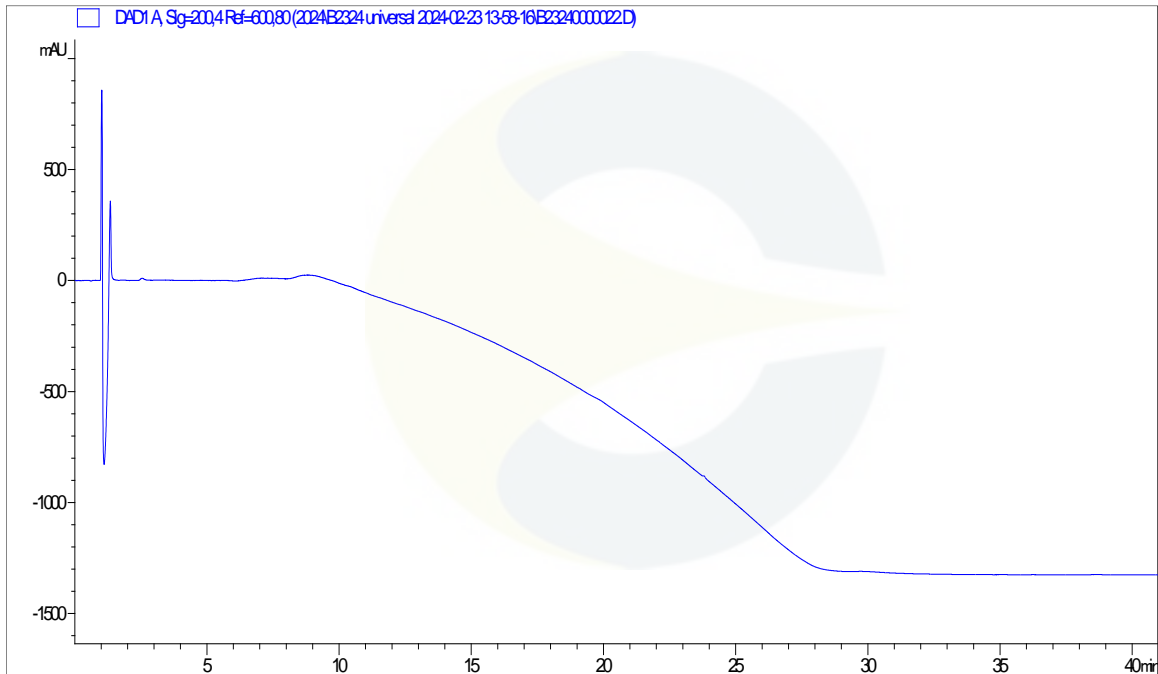
HPLC CHROMATOGRAM OF LUPEOL (00012392-724)



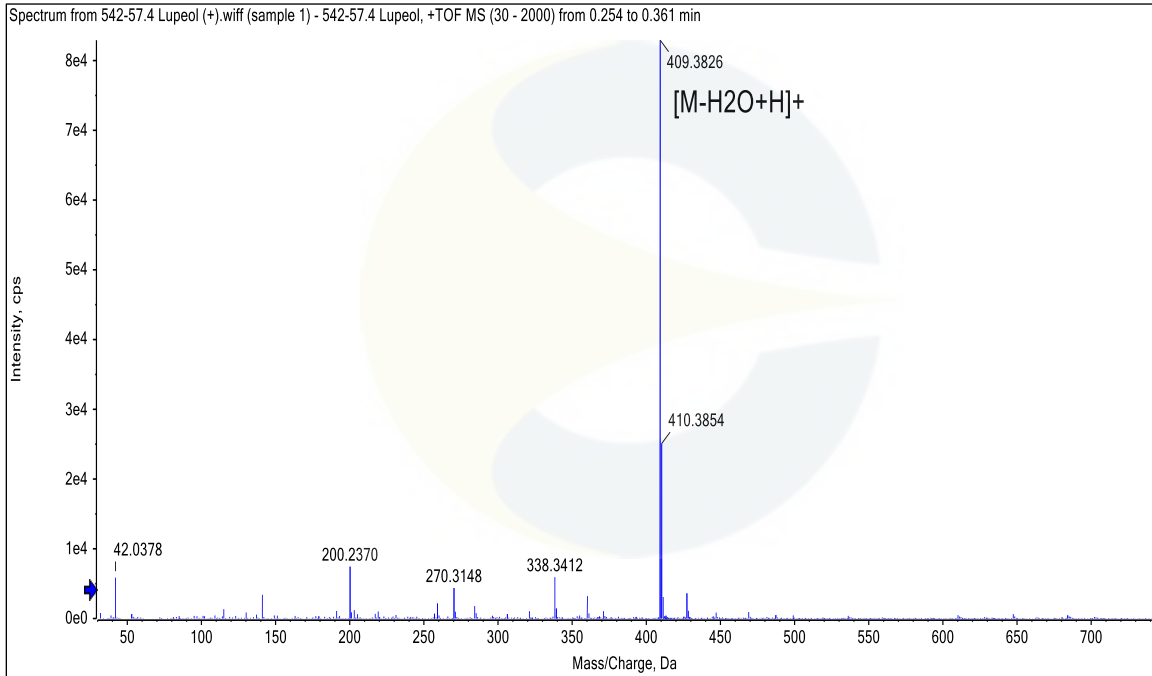
UV SPECTRUM AT RT = 31.2 MINUTES



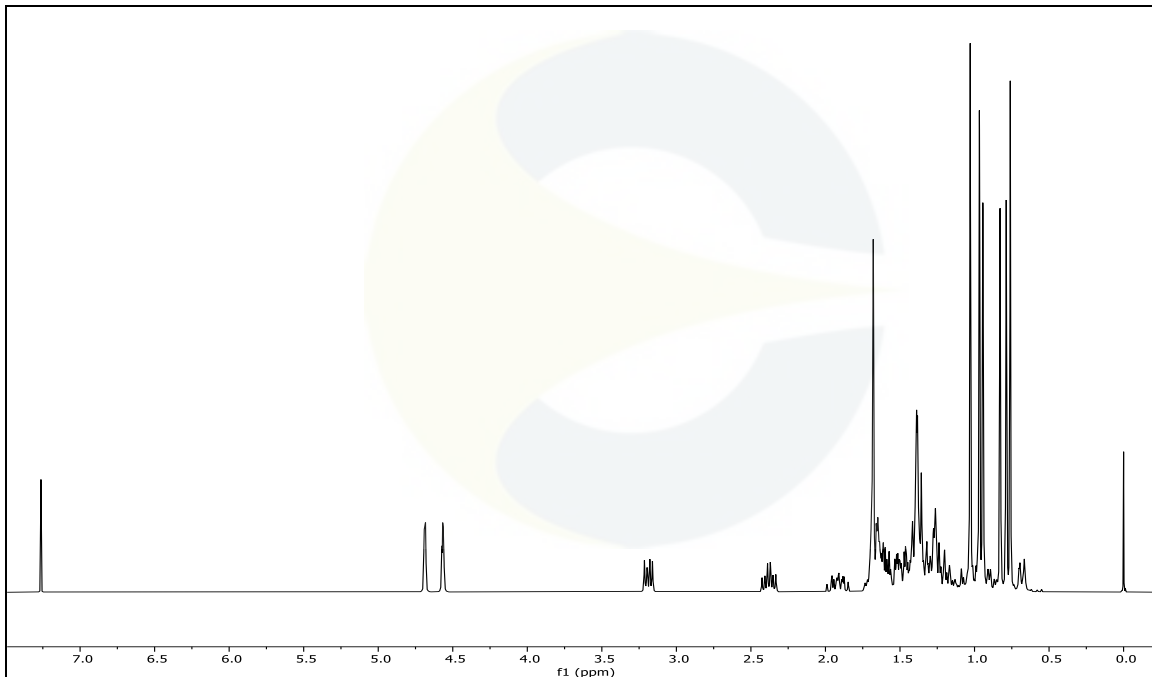
HPLC CHROMATOGRAM OF DILUENT BLANK



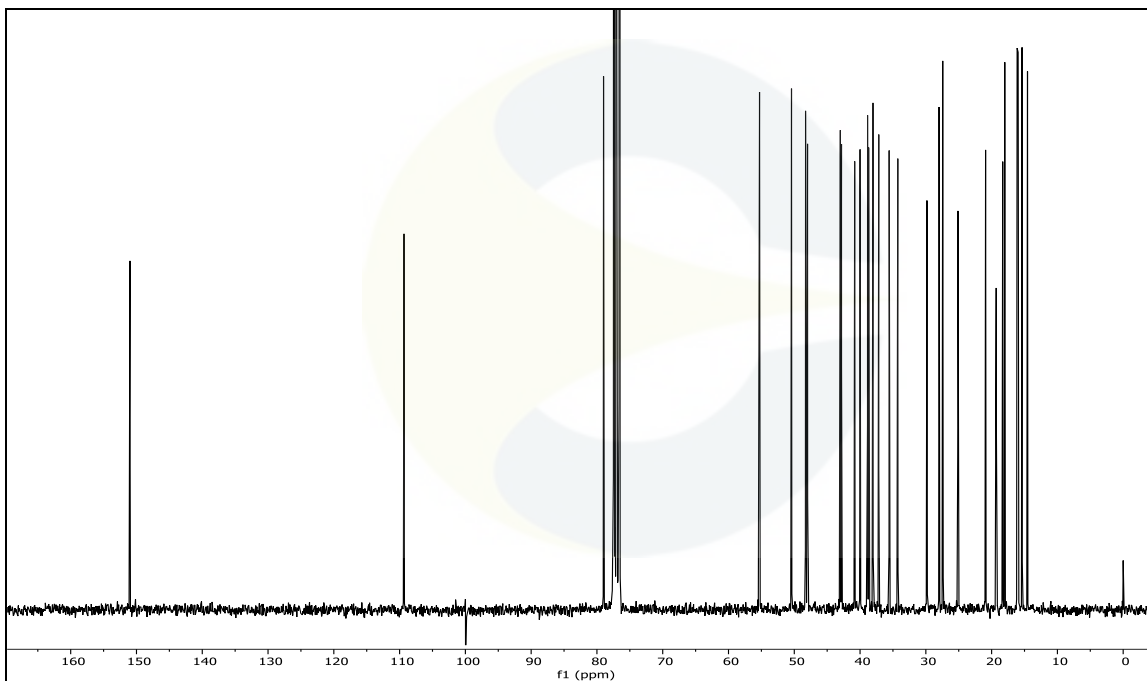
MASS SPECTRUM OF LUPEOL (00012392-724)



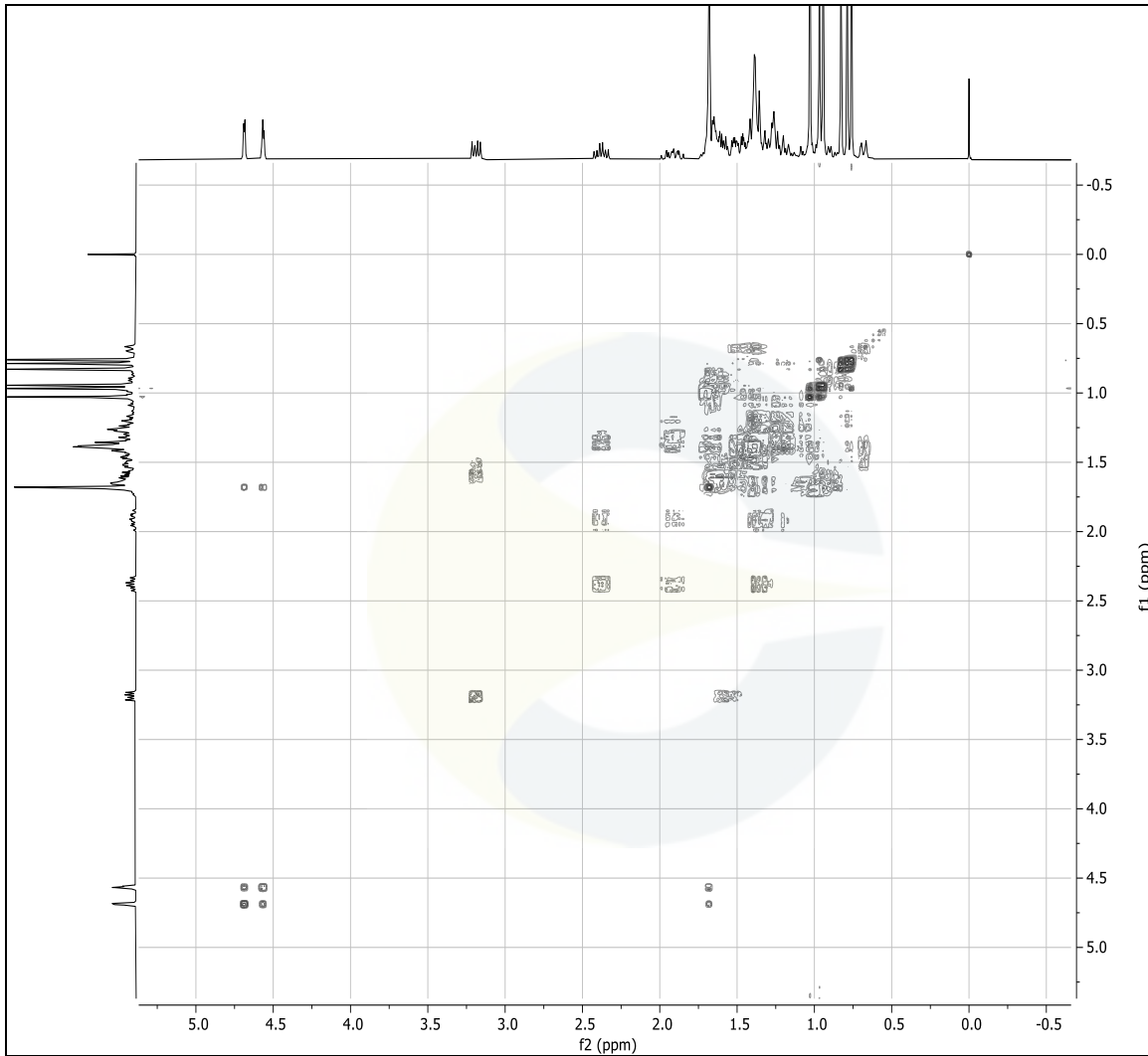
¹H-NMR SPECTRUM OF LUPEOL (00012392-724) IN CDCl₃ + TMS



¹³C-NMR SPECTRUM LUPEOL (00012392-724) IN CDCl₃ + TMS



COSY-NMR SPECTRUM OF LUPEOL (00012392-724) IN CDCl₃ + TMS



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12Mar2024	New report