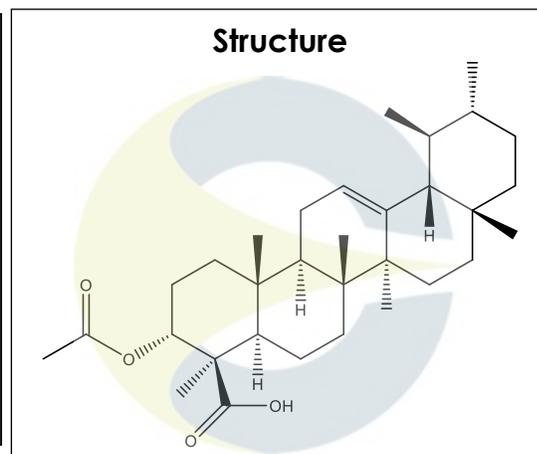


Certificate of Analysis
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PRODUCT NAME	3-Acetyl-B-Boswellic Acid
PART NUMBER	00002565
STANDARD TYPE	Primary (P)
LOT NUMBER	00002565-01B
REPORT NUMBER	CDXA-RSS-9506-00
SAMPLE NUMBER	CDXP-21-00716
DATE OF SAMPLE	09/23/2021
DATE OF REPORT	10/15/2021



CHEMICAL NAMES	3-O-Acetyl-β-boswellic acid; (3α,4β)-3-(acetyloxy)-urs-12-en-23-oic acid
CHEMICAL FORMULA	C ₃₂ H ₅₀ O ₄
MOLECULAR WEIGHT (MW)	498.74
CHEMICAL FAMILY	Triterpenes
CAS NUMBER	[5968-70-7]
EC#(EINECS)	611-863-3
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.7%
HPLC	0.700.10.2.METH22	≥ 90%	99.3%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Ethyl Acetate 5650 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 98.7% IS BASED ON (100 - 0.6 SOLVENTS - 0.0 WATER) X 99.3% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	09/2026 under the above conditions.

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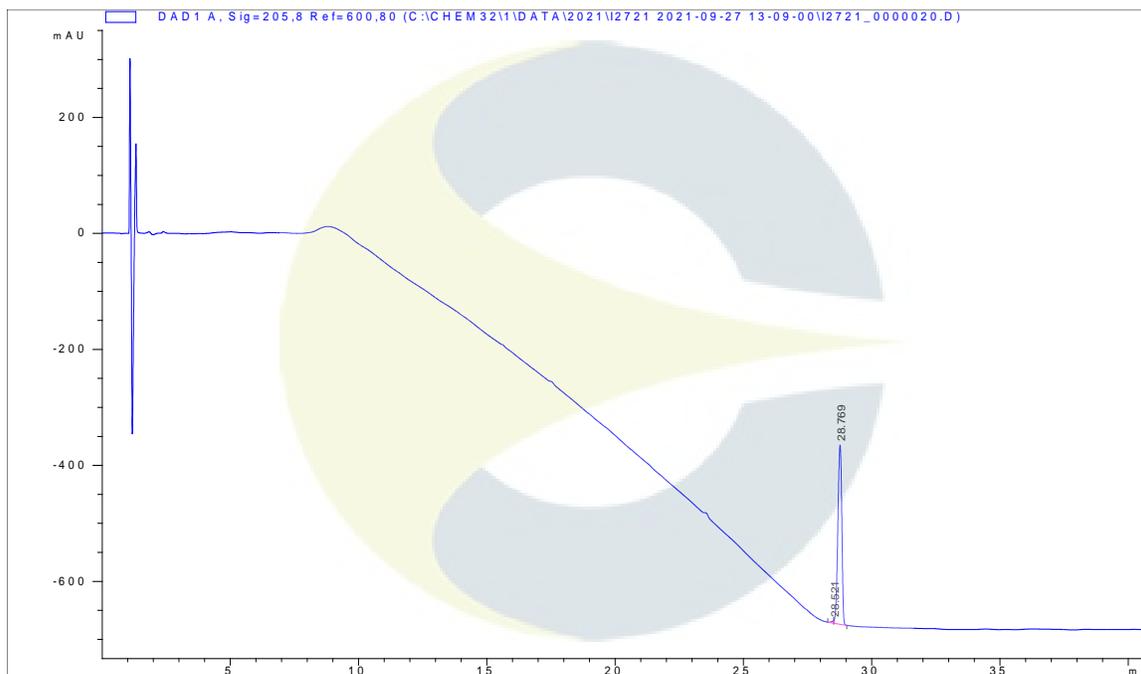
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ANALYTICAL CONDITIONS

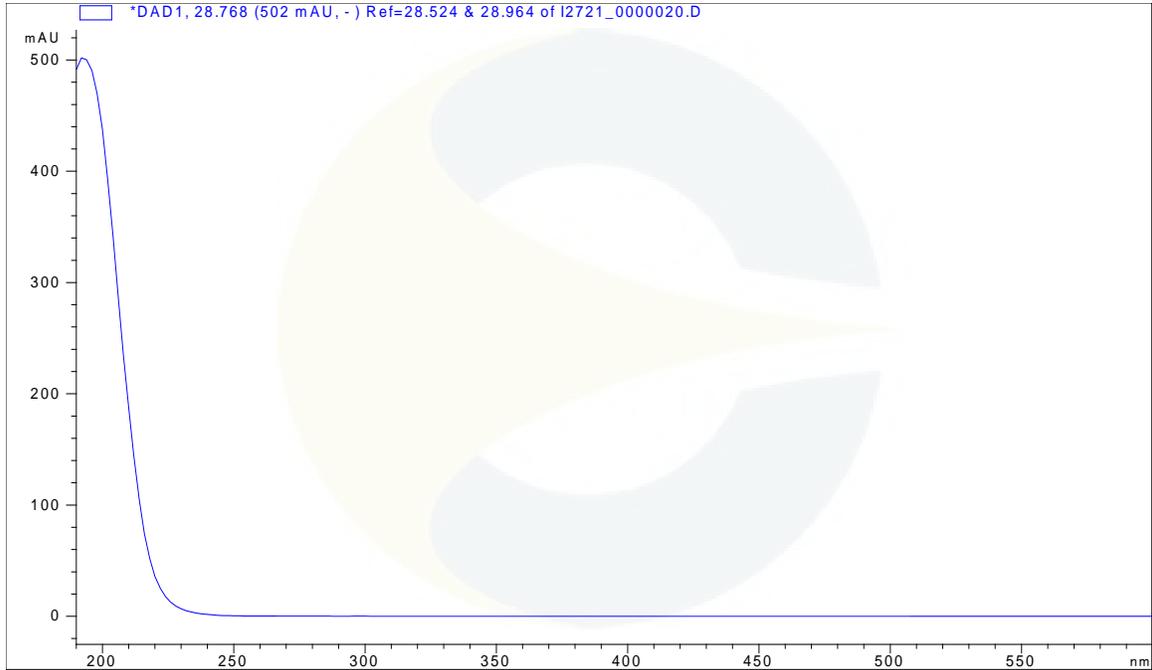
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	2.0 µL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	205 ± 4 nm

HPLC CHROMATOGRAM OF 3-ACETYL-B-BOSWELLIC ACID (CDXP-21-00716)

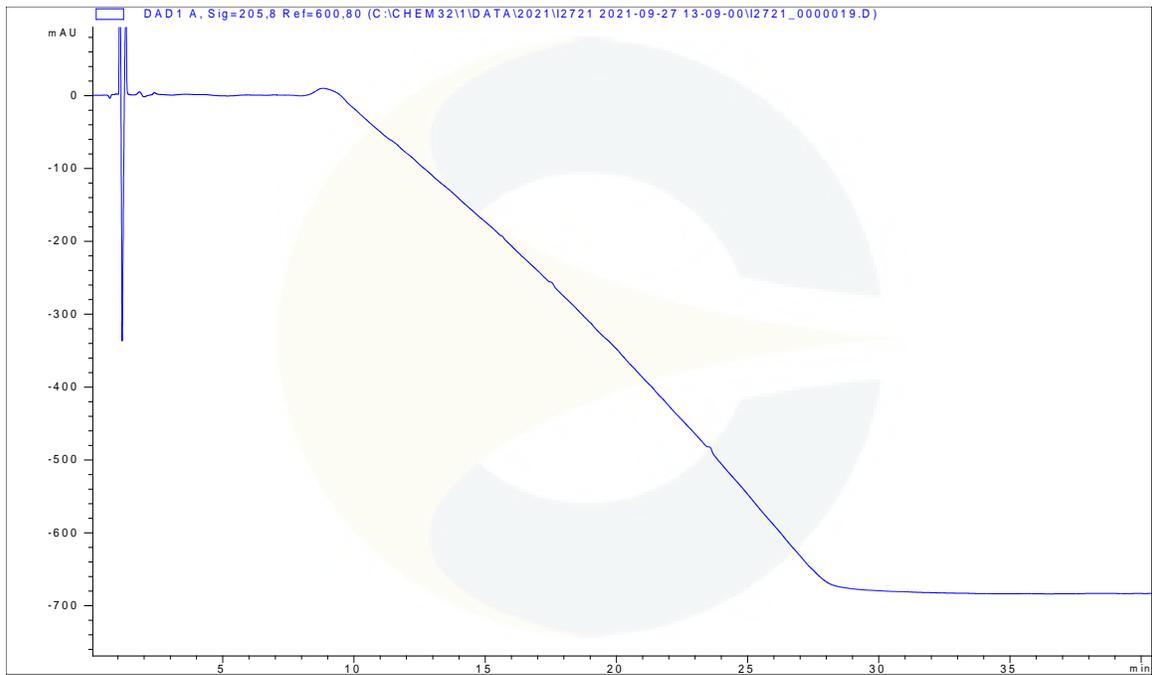


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UV SPECTRUM AT RT = 28.8 MINUTES

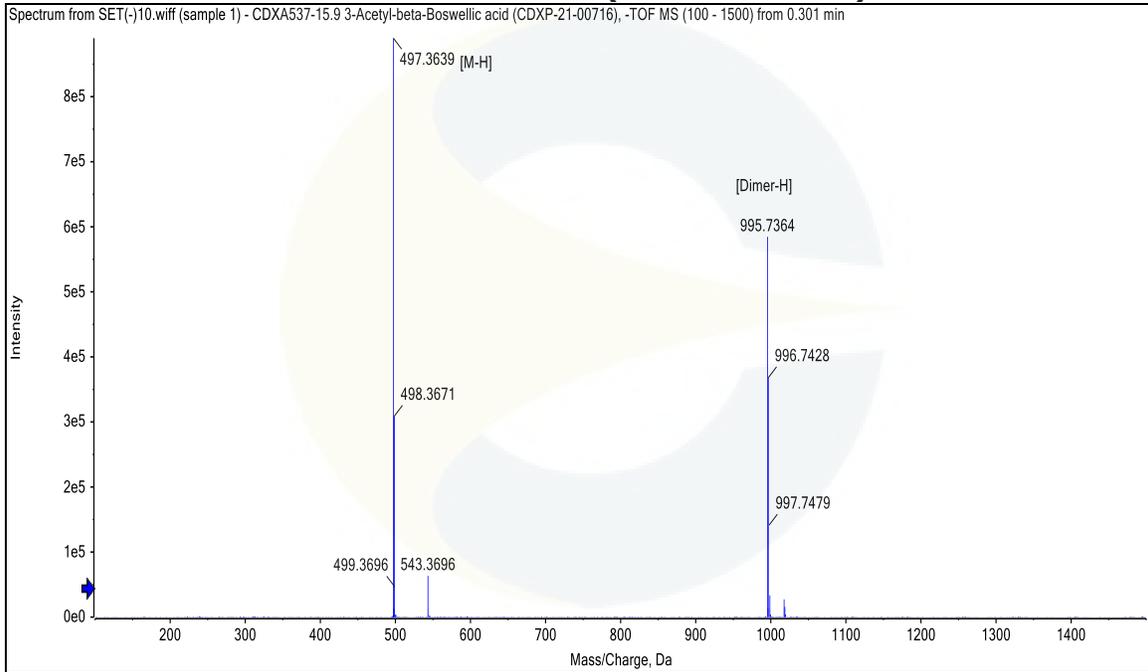


HPLC CHROMATOGRAM OF DILUENT BLANK

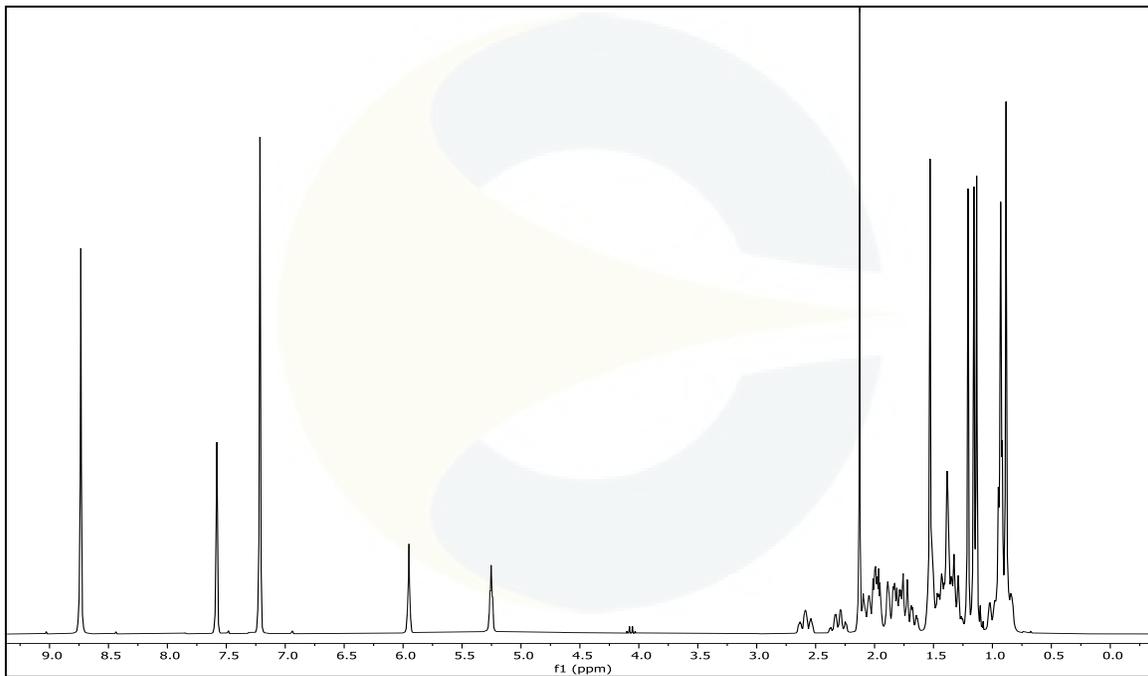


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MASS SPECTRUM OF 3-ACETYL-B-BOSWELIC ACID (CDXP-21-00716)

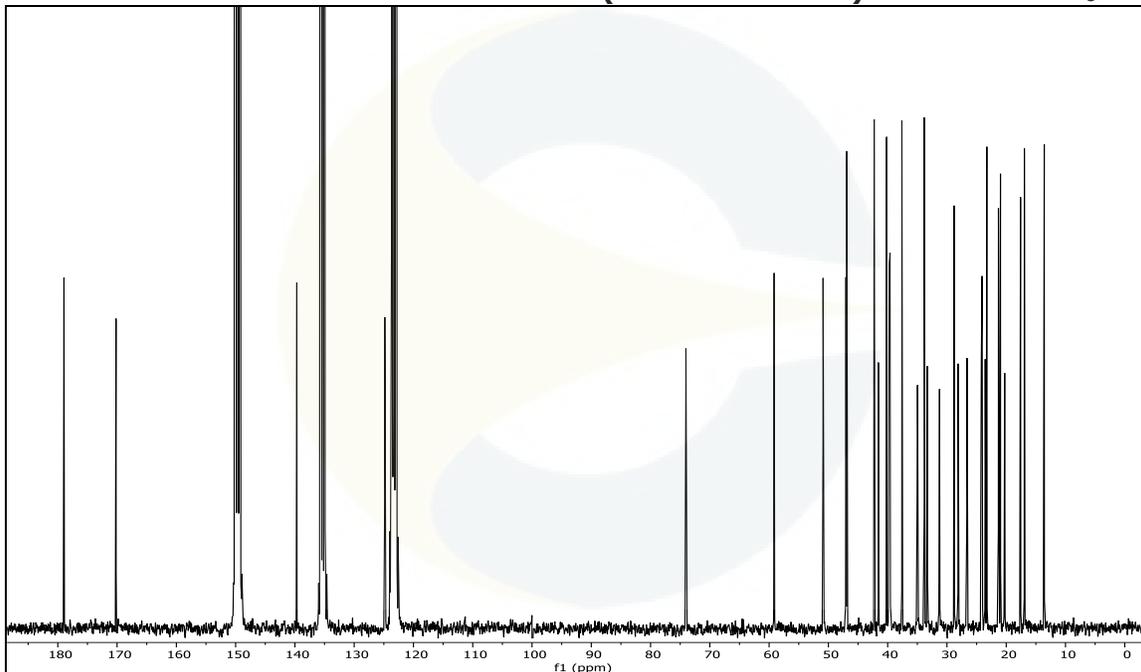


¹H-NMR SPECTRUM OF 3-ACETYL-B-BOSWELIC ACID (CDXP-21-00716) IN PYRIDINE-d₅



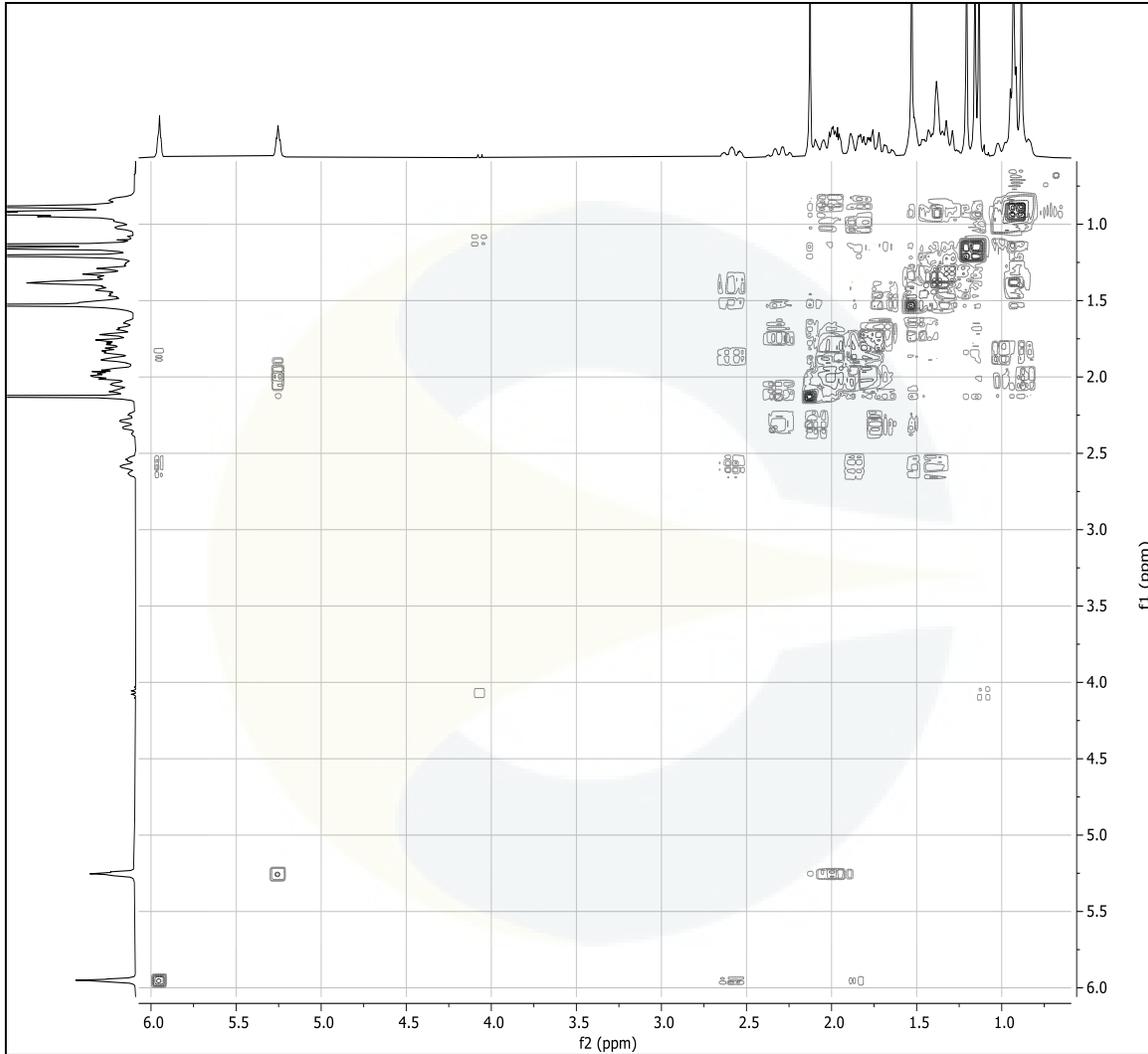
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¹³C-NMR SPECTRUM 3-ACETYL-B-BOSWELIC ACID (CDXP-21-00716) IN PYRIDINE-d₅



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COSY-NMR SPECTRUM OF 3-ACETYL-B-BOSWELLIC ACID (CDXP-21-00716) IN PYRIDINE-d₅



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/15/2021	New report

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