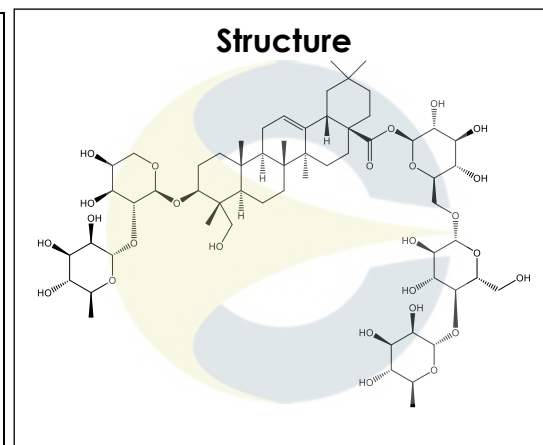


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PRODUCT NAME	Hederacoside C
PART NUMBER	00008065
STANDARD TYPE	Primary (P)
LOT NUMBER	00008065-541
REPORT NUMBER	CDXA-RSS-9451-00
SAMPLE NUMBER	CDXP-21-00498
DATE OF SAMPLE	07/12/2021
DATE OF REPORT	08/19/2021



CHEMICAL NAMES	3-[[2-O-(6-deoxy- α -L-mannopyranosyl)- α -L-arabinopyranosyl]oxy]-23-hydroxy-olean-12-en-28-oic acid (3b,4a)-O-6-Deoxy- α -L-mannopyranosyl-(1 \rightarrow 4)-O-b-D-glucopyranosyl-(1 \rightarrow 6)-b-D-glucopyranosyl ester; Kalopanaxsaponin B; Hederasaponin C
CHEMICAL FORMULA	C ₅₉ H ₉₆ O ₂₆
MOLECULAR WEIGHT (MW)	1221.38
CHEMICAL FAMILY	Saponins
CAS NUMBER	[14216-03-6]
EC#(EINECS)	238-072-2
RTECS	RK0177805

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	$\geq 85\%$	95.6%
HPLC	0.700.10.2.METH22	$\geq 90\%$	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	MeOH – 869 ppm
Water	0.700.12.37	NA	4.2%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 95.6% IS BASED ON (100 - 0.1 SOLVENTS - 4.2 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	07/2026 under the above conditions.

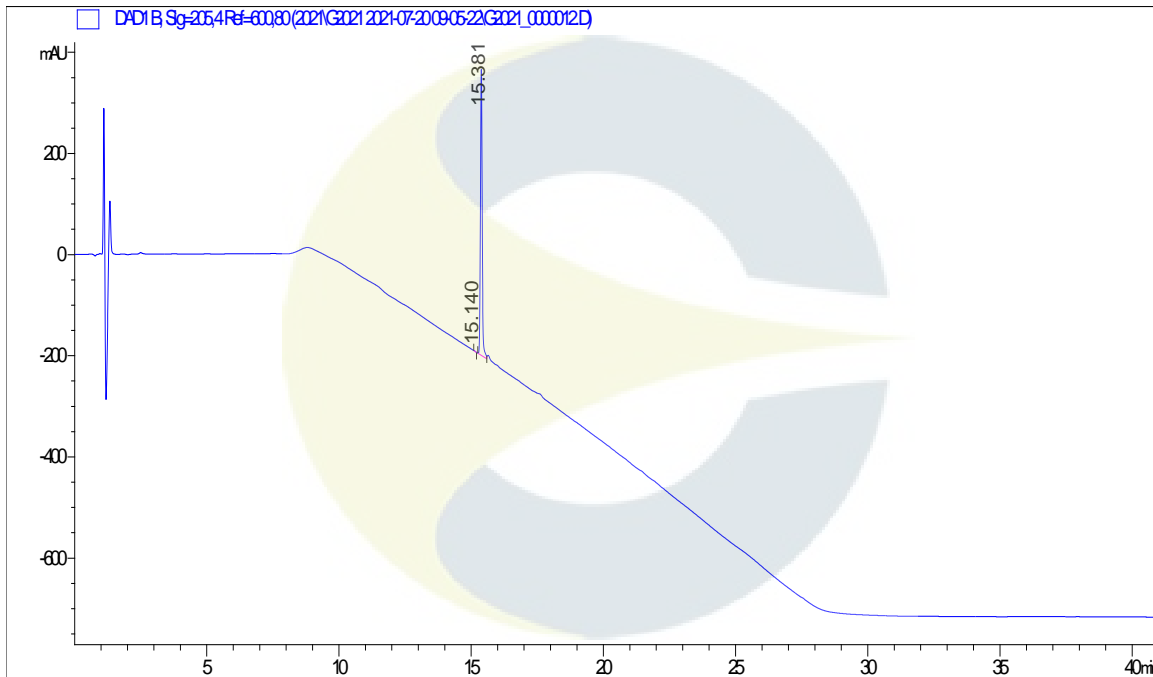
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ANALYTICAL CONDITIONS

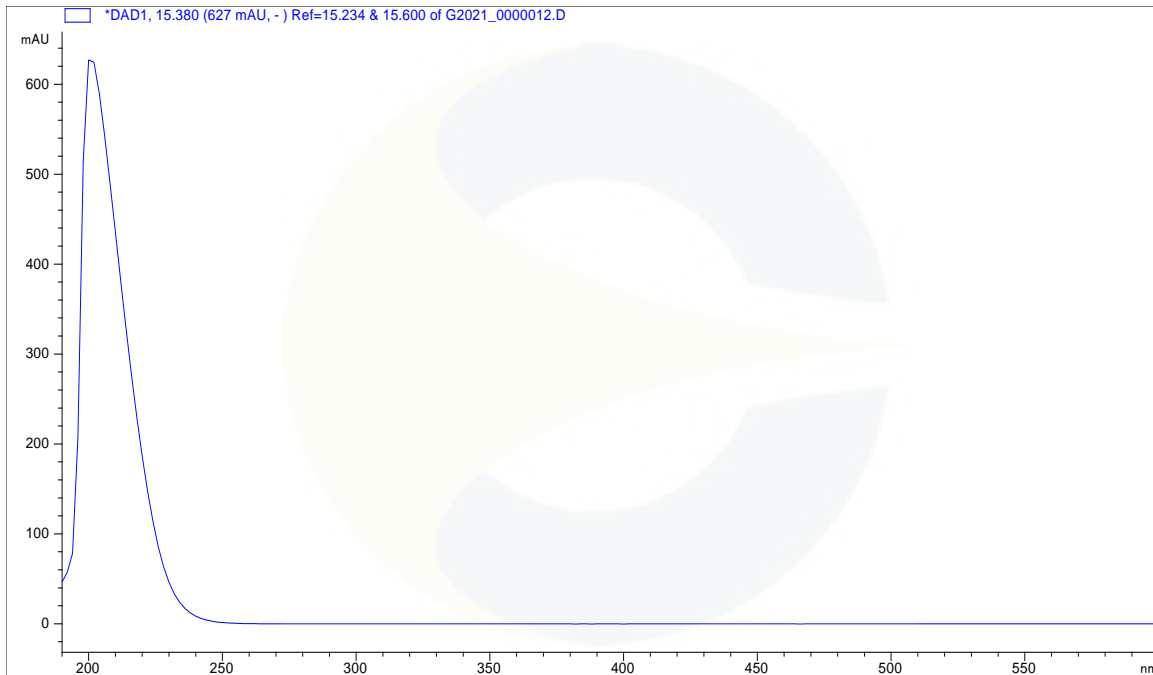
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 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.	2.1 mg/mL in Methanol
DETECTION	205 ± 2 nm

HPLC CHROMATOGRAM OF HEDERACOSIDE C (CDXP-21-00498)


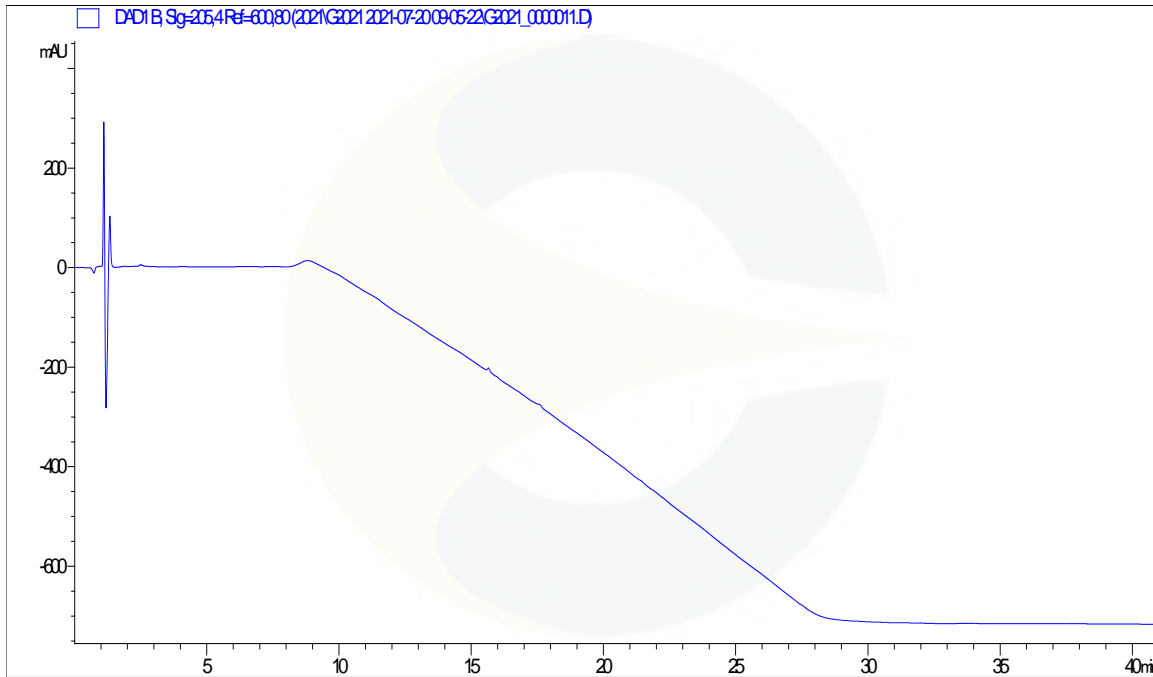
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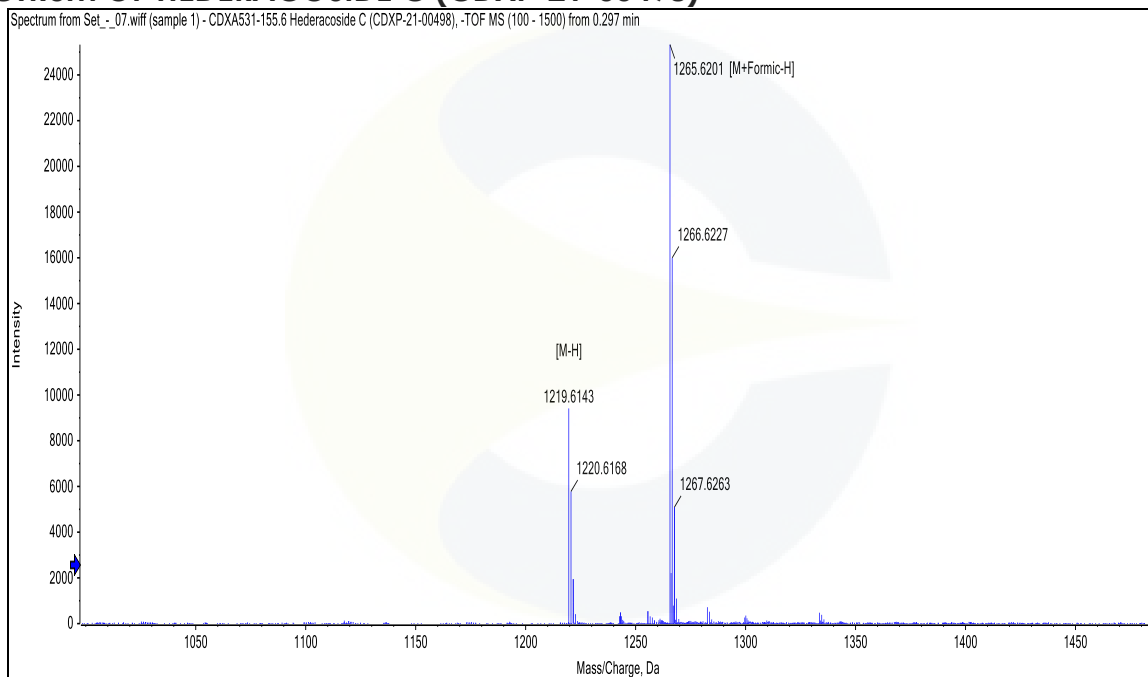
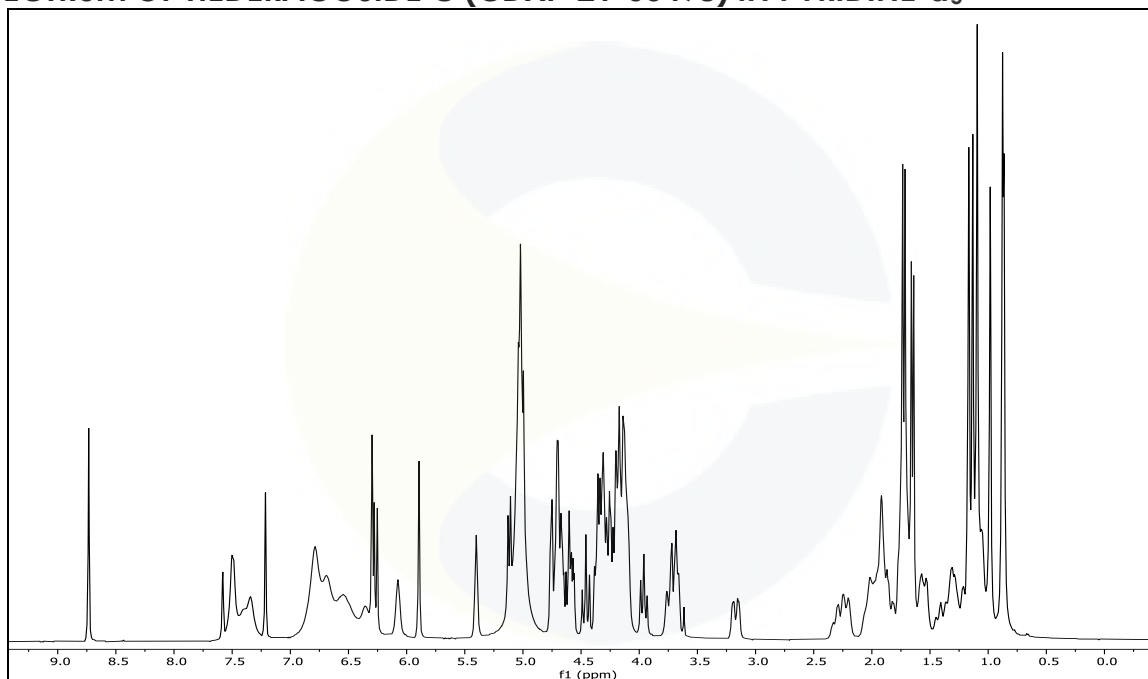
UV SPECTRUM AT RT = 15.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



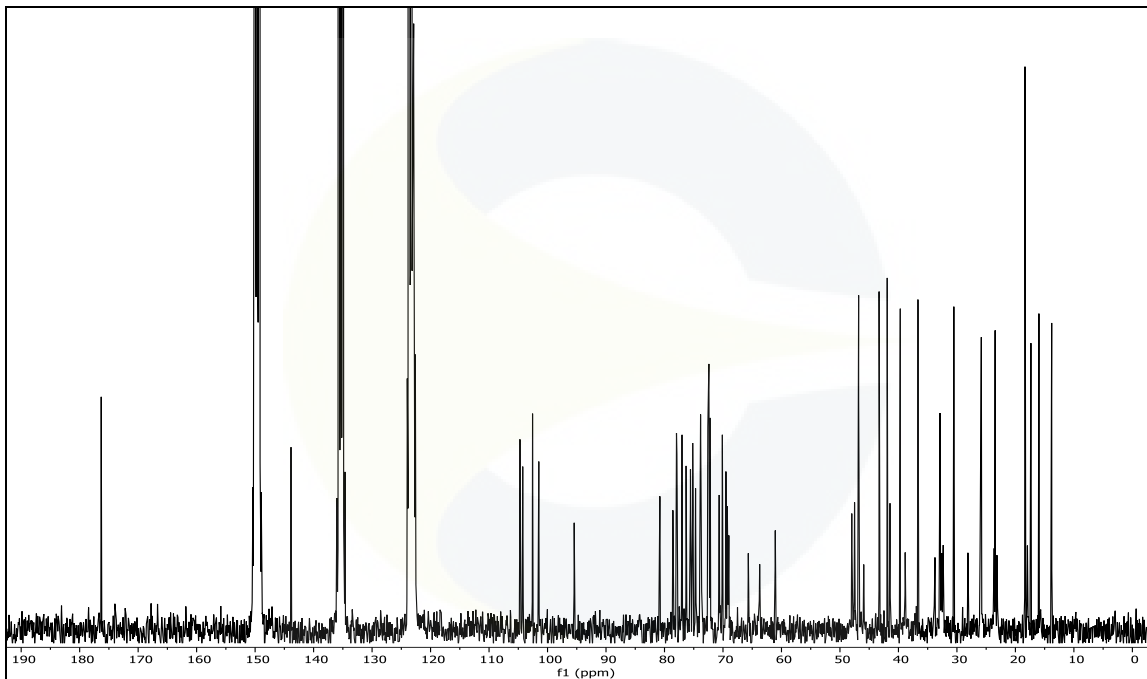
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MASS SPECTRUM OF HEDERACOSIDE C (CDXP-21-00498)

¹H-NMR SPECTRUM OF HEDERACOSIDE C (CDXP-21-00498) IN PYRIDINE-d₅


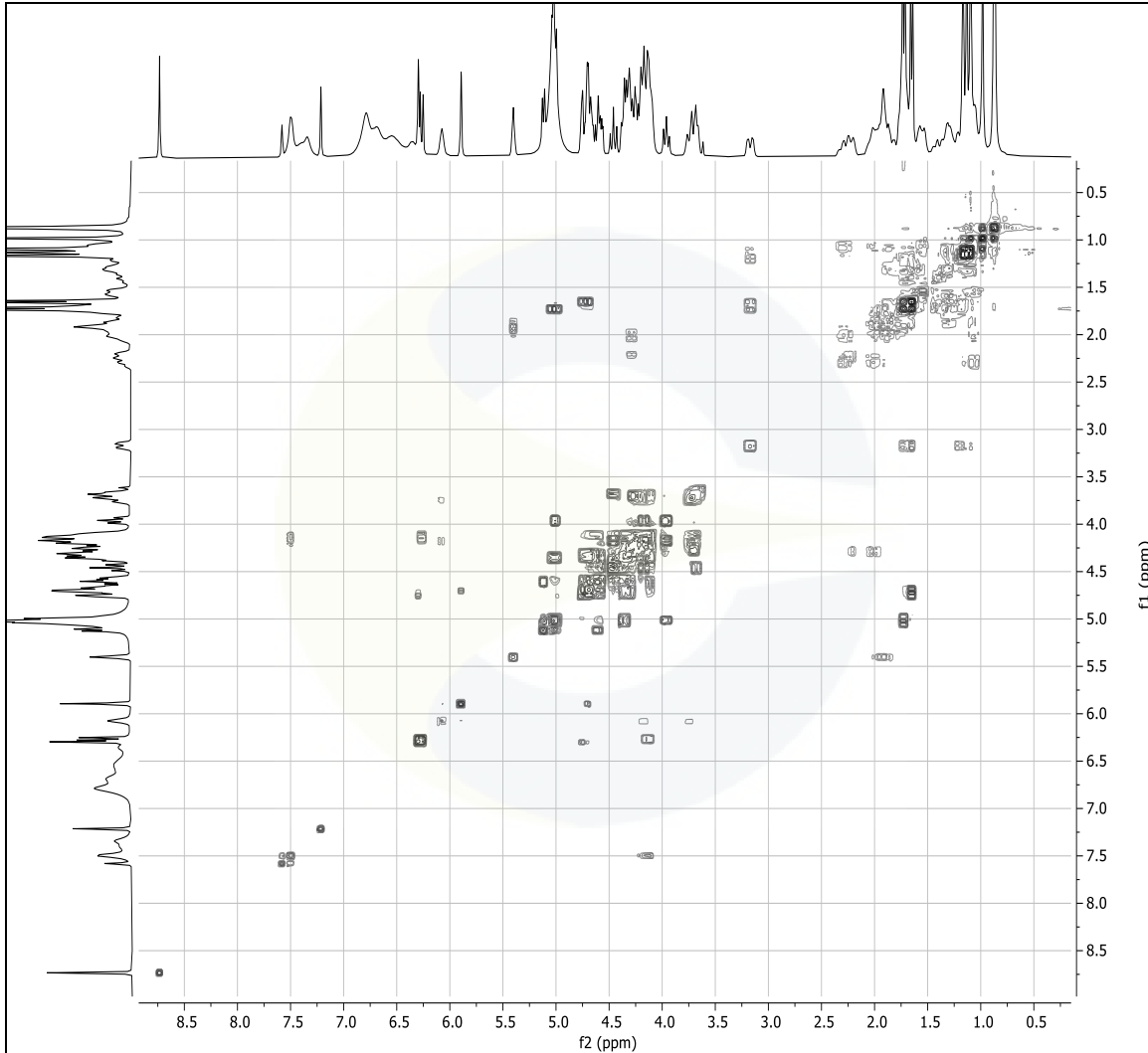
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¹³C-NMR SPECTRUM HEDERACOSIDE C (CDXP-21-00498) IN PYRIDINE-*d*₅

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COSY-NMR SPECTRUM OF HEDERACOSIDE C (CDXP-21-00498) IN PYRIDINE-d₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/19/2021	New report

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