



SPECIMEN

Certificate of Analysis

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PRODUCT NAME	Dulcoside A	
PART NUMBER	00004949	
STANDARD TYPE	Primary (P)	
LOT NUMBER	00004949-910	
REPORT NUMBER	CDXA-RSS-8449-01	
SAMPLE NUMBER	CDXP-18-01354	но
DATE OF SAMPLE	12/26/2018	HOMM
DATE OF RE-EVALUATION	11/02/2022	но
DATE OF REPORT	11/10/2022	ÖH
CHEMICAL NAMES	(4α)-13-[[2-O-(6-Deoxy-α-L-mannopyr en-18-oic acid-β-D-glucopyranosyl es	
CHEMICAL FORMULA	C38H60O17	
MOLECULAR WEIGHT (MW)	788.87	
CHEMICAL FAMILY	Diterpene glycosides	
CAS NUMBER	[64432-06-0]	

EC#(EINECS) NA

RTECS NZ8174620

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	86.3%
HPLC	0.700.10.2.METH86	≥ 90%	96.3%
NMR	30.1-04-1.0-000733	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent*	99.1-CDXA-3.0-000621	NA	MeOH – 1.1%; EtOH – 0.1%
Water	0.700.12.37	NA	9.2%
Appearance	NA	NA	White powder





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*Testing performed at an ISO 17025 accredited subcontracted laboratory. ADJUSTED PURITY: 86.3% IS BASED ON (100 - 1.2 SOLVENTS - 9.2 WATER) X 96.3% HPLC

STORAGE CONDITIONS

STORAGE+4 °C in a dry place.EXPIRATION DATE11/2027 under the above conditions.

ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD) ; AB-SCIEX 6600 TRIPLE TOF		
COLUMN	Phenomenex Synergi Hydro-RP 250 x 4.60 mm, 4 µm particle size		
MOBILE PHASE	A – Ultrapure water, B – Acetonitrile; Isocratic 20% B for 5 minutes, then increasing to 30% B over 10 minutes, then increasing to 35% B over 15 minutes, then increasing to 80% B over 10 minutes, then increasing to 90% B over 5 minutes. Hold at 90% B for 5 minutes.		
COLUMN TEMP.	60 °C		
FLOW RATE	1.0 mL/minute		
INJECTION VOL.	10.0 μL		
INJECTION CONC.	1.2 mg/mL in (70:30) Ultrapure water: Acetonitrile		
DETECTION	202 ± 4 nm		

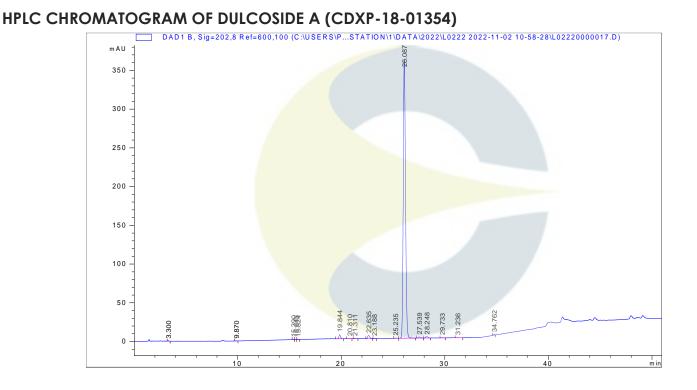




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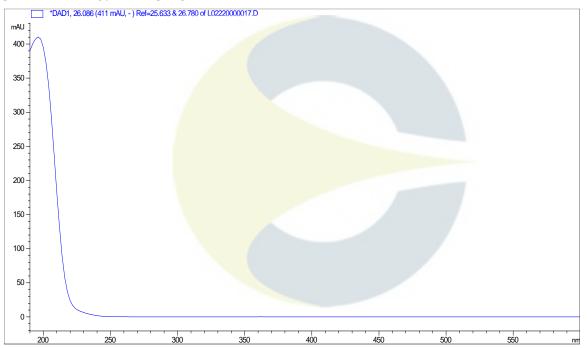


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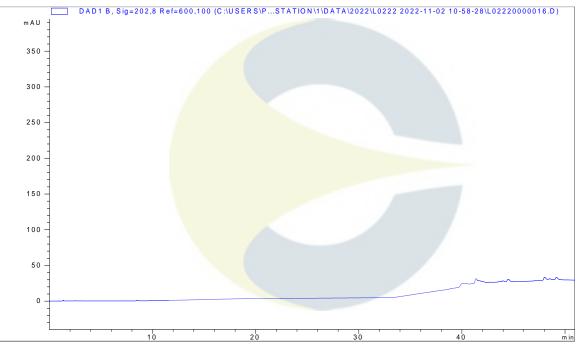
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UV SPECTRUM AT RT = 26.1 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK







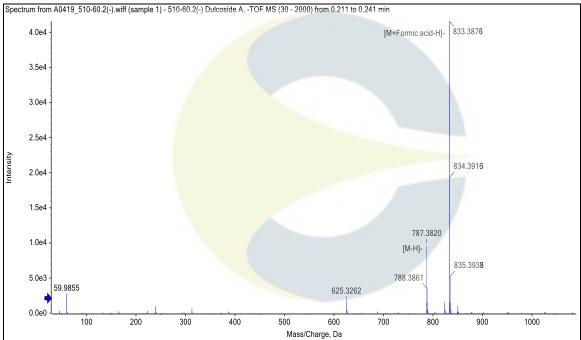


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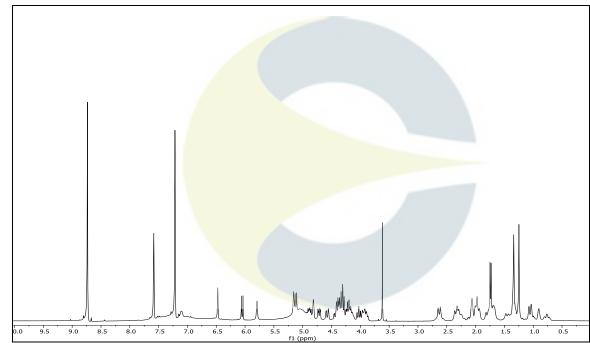
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MASS SPECTRUM OF DULCOSIDE A (CDXP-18-01354)



¹H-NMR SPECTRUM OF DULCOSIDE A (CDXP-18-01354) IN PYRIDINE-d₅





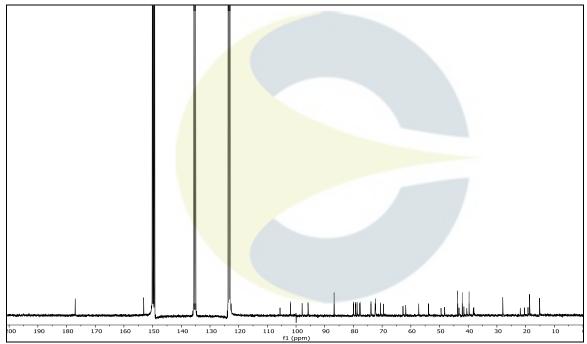


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¹³C-NMR SPECTRUM OF DULCOSIDE A (CDXP-18-01354) IN PYRIDINE-d₅



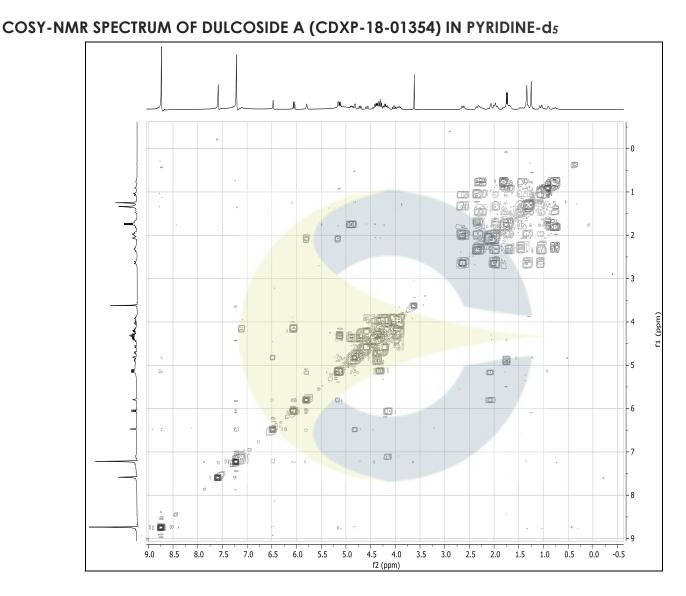




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REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	01/10/2019	New report
01	11/10/2022	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms.