



SPECIMEN

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PRODUCT NAME	Bacoside X	Structure
PART NUMBER	00002014-002	
STANDARD TYPE	Primary (P)	н он
LOT NUMBER	00002014-002	
REPORT NUMBER	CDXA-RSS-7896-01	Home
SAMPLE NUMBER	CDXP-18-00185	HO HH HO
DATE OF SAMPLE	03/07/2018	но
DATE OF RE-EVALUATION	02/03/2022	йн он
DATE OF REPORT	02/16/2022	

CHEMICAL NAMES	$\alpha\text{-L-arabinopyranoside}$ derivative; Bacopaside VII; Bacopaside X
CHEMICAL FORMULA	C46H74O17
MOLECULAR WEIGHT (MW)	899.07
CHEMICAL FAMILY	Triterpenoid saponins
CAS NUMBER	[94443-88-6]
EC#(EINECS)	NA
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	89.0%
HPLC	0.700.10.2.METH22	≥ 90%	95.5%
NMR	99.1-04-2.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	IPA < 0.1%
Water	0.700.12.37	NA	6.8%
Appearance NA		NA	White powder

ADJUSTED PURITY: 89.0% IS BASED ON (100 - 0.0 SOLVENTS - 6.8 WATER) X 95.5% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 02/2027 under the above conditions.

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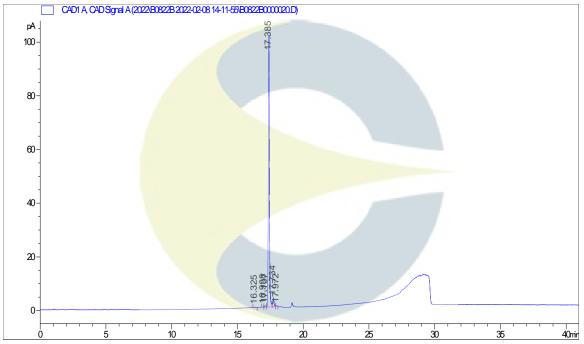
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ANALYTICAL	CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL DETECTOR (CAD); AB–SCIEX 6600 TRIPLE TOF	
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 μ m 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.	
COLUMN TEMP.	0° C	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	2.0 μL	
INJECTION CONC.	1.0 mg/mL in Methanol	
DETECTION	CAD	

HPLC CHROMATOGRAM OF BACOSIDE X (CDXP-18-00185)



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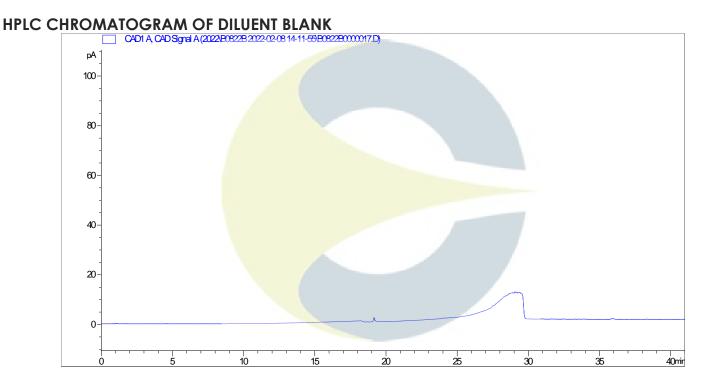




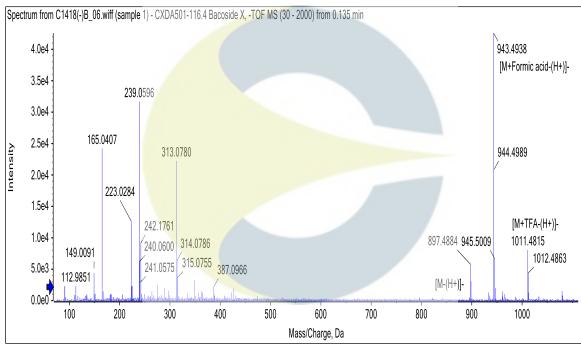
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MASS SPECTRUM OF BACOSIDE X (CDXP-18-00185)



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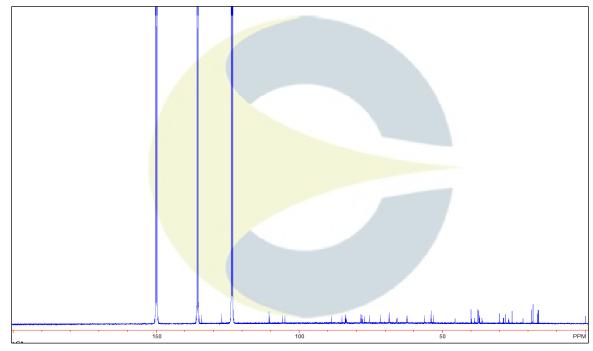
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¹H-NMR SPECTRUM OF BACOSIDE X (CDXP-18-00185) IN PYRIDINE-ds

¹³C-NMR SPECTRUM OF BACOSIDE X (CDXP-18-00185) IN PYRIDINE-d₅



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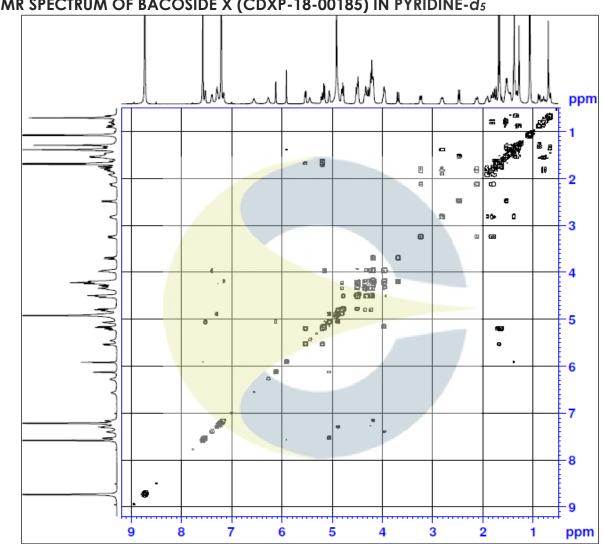




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COSY-NMR SPECTRUM OF BACOSIDE X (CDXP-18-00185) IN PYRIDINE-d₅

REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	03/28/2018	New report
01	02/16/2022	Passed re-evaluation by HPLC and KF. Updated expiration date, purity, water content results and analytical conditions.

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