



CONFIDENTIAL

### **SPECIMEN**

# Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	Bacoside A (Mixture of Saponins)
PART NUMBER	00002005
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00002005-451
REPORT NUMBER	CDXA-RSS-9420-00
SAMPLE NUMBER	CDXP-21-00321
DATE OF SAMPLE	05/04/2021
DATE OF REPORT	07/29/2021

Mixture of Bacoside A saponins including: Bacoside A3, Bacopaside II, Bacopaside X and Bacopasaponin C
N/A
N/A
Triterpenes
[11028-00-5]
N/A
N/A

#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
HPLC	See below	≥ 75%	Peak @ 17.2 min - 12.0%
			Peak @ 17.6 min - 33.8%
			Peak @ 18.2 min - 22.7%
			Peak @ 19.1 min - 29.1%
			Total = 97.7%
Mass Spectrum	See below	Conforms	Conforms
Appearance	NA	NA	White powder

### **STORAGE CONDITIONS**

**STORAGE** +4 °C in a dry place.

**EXPIRATION DATE** 05/2026 under the above conditions.





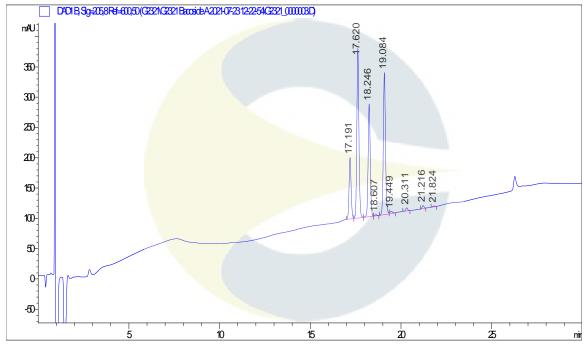
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#### ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 3 µm particle size
MOBILE PHASE	A - 0.1% Formic acid in Ultrapure water, B – 0.1% Formic acid in Methanol;
	15% B increasing to 50% B over 5 minutes then increasing to 80% B over 20 minutes. Hold at 80% B for 5 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	8.0 μL
INJECTION CONC.	1.3 mg/mL in Methanol
DETECTION	205 ± 4 nm

#### HPLC CHROMATOGRAM OF BACOSIDE A (MIXTURE OF SAPONINS) (CDXP-21-00321)

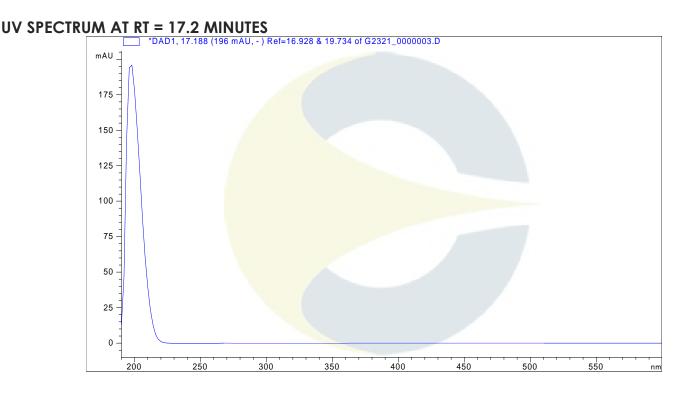




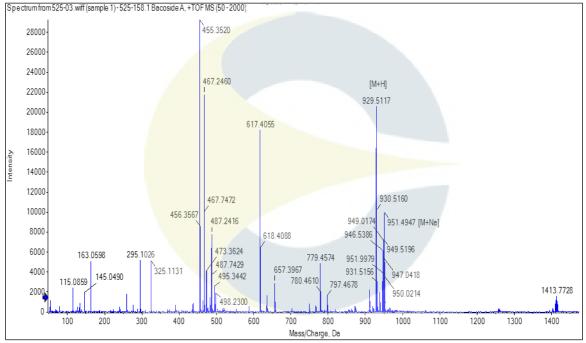


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### MASS SPECTRUM AT RT = 17.2 MINUTES

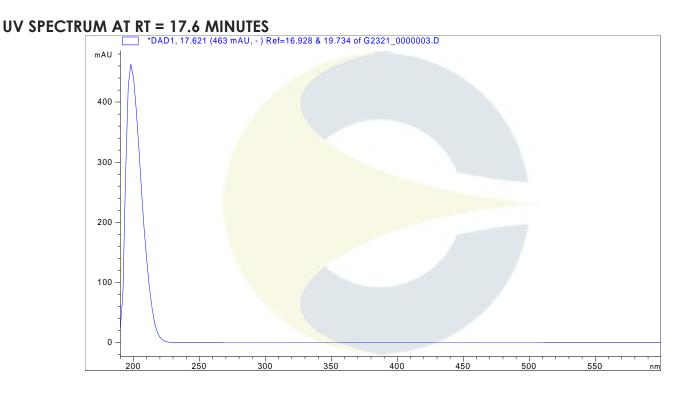




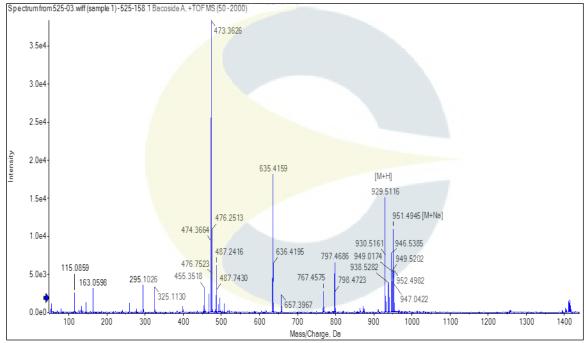


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#### MASS SPECTRUM AT RT = 17.6 MINUTES

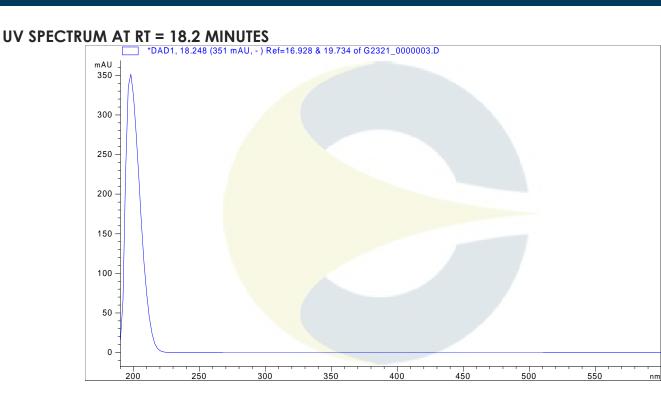




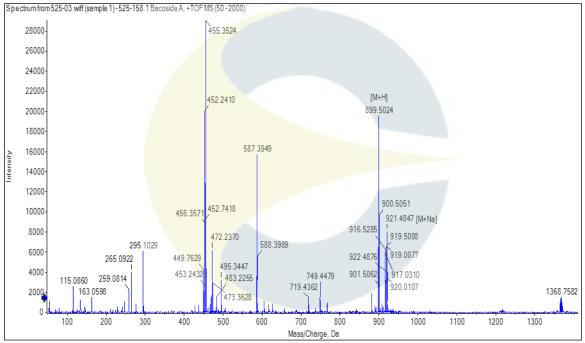


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#### MASS SPECTRUM AT RT = 18.2 MINUTES

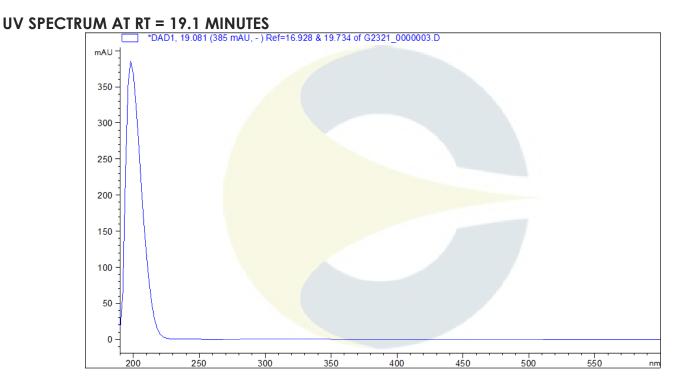




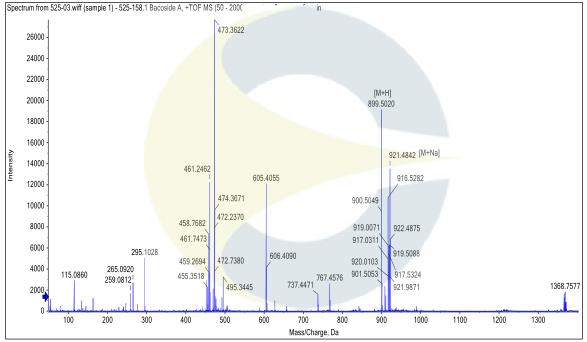


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#### MASS SPECTRUM AT RT = 19.1 MINUTES



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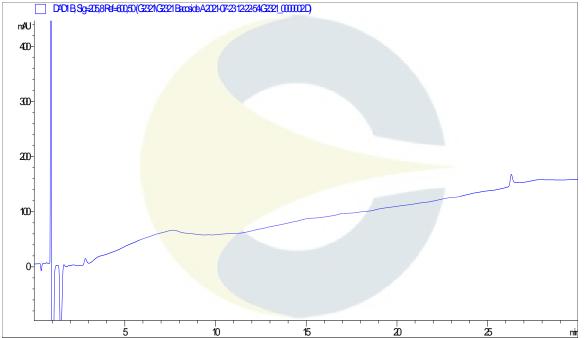




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### HPLC CHROMATOGRAM OF DILUENT BLANK



#### **REVISION HISTORY**

Revision History	Date of Revision	Document/Changes

00 07/29/2021 New report