





# Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME Salannin

**PART NUMBER** 00019028

**STANDARD TYPE** Primary (P)

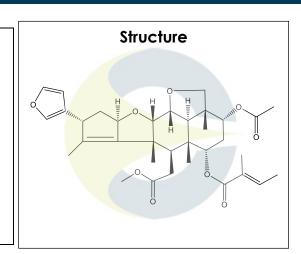
**LOT NUMBER** 00019028-00778

REPORT NUMBER CDXA-RSS-9207-00

SAMPLE NUMBER CDXP-20-00778

**DATE OF SAMPLE** 10/21/2020

**DATE OF REPORT** 11/11/2020



CHEMICAL NAMES Azadirachtin, neem; Margosan-O

CHEMICAL FORMULA C<sub>34</sub>H<sub>44</sub>O<sub>9</sub>

MOLECULAR WEIGHT (MW) 596.71

CHEMICAL FAMILY Triterpenoids

**CAS NUMBER** [992-20-1]

EC#(EINECS) N/A

RTECS N/A

#### ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.0%
HPLC	0.700.10.2.METH22	≥ 90%	97.1%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Ethanol: 940 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

\*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 97.0% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 97.1% HPLC

#### STORAGE CONDITIONS

**STORAGE** -20 °C in a dry place.

**EXPIRATION DATE** 10/2025 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

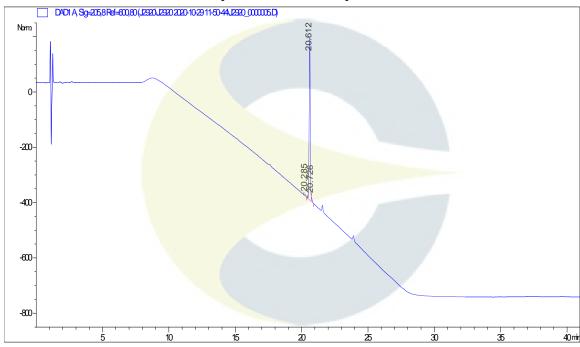
**FLOW RATE** 0.4 mL/minute

INJECTION VOL. 0.4 μL

**INJECTION CONC.** 1.4 mg/mL in Methanol

**DETECTION**  $205 \pm 4 \text{ nm}$ 

### HPLC CHROMATOGRAM OF SALANNIN (CDXP-20-00778)



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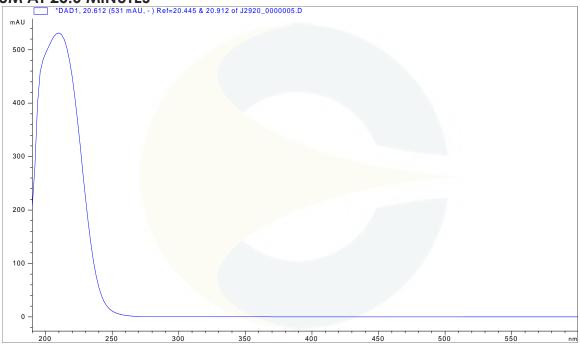




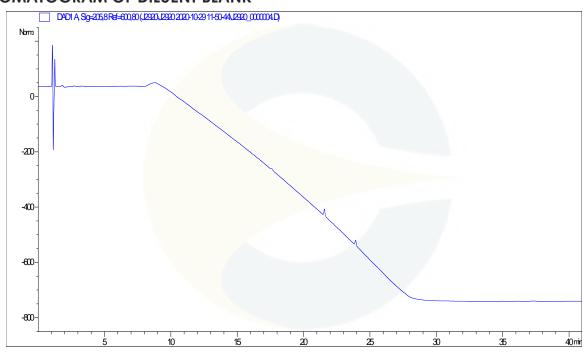
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#### **UV SPECTRUM AT 20.6 MINUTES**



#### HPLC CHROMATOGRAM OF DILUENT BLANK



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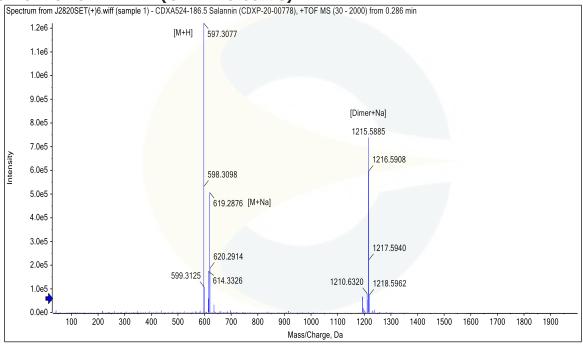




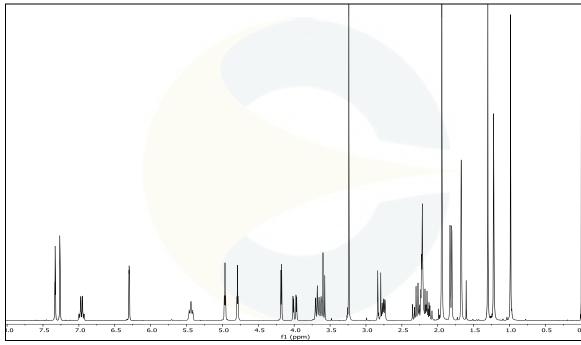
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### MASS SPECTRUM OF SALANNIN (CDXP-20-00778)



## <sup>1</sup>H-NMR SPECTRUM OF SALANNIN (CDXP-20-00778) IN CDCl<sub>3</sub> + TMS



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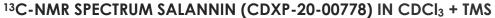


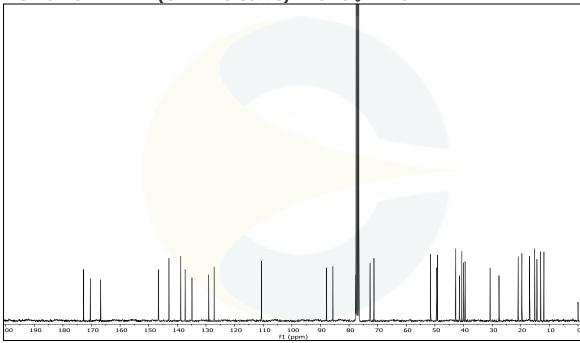




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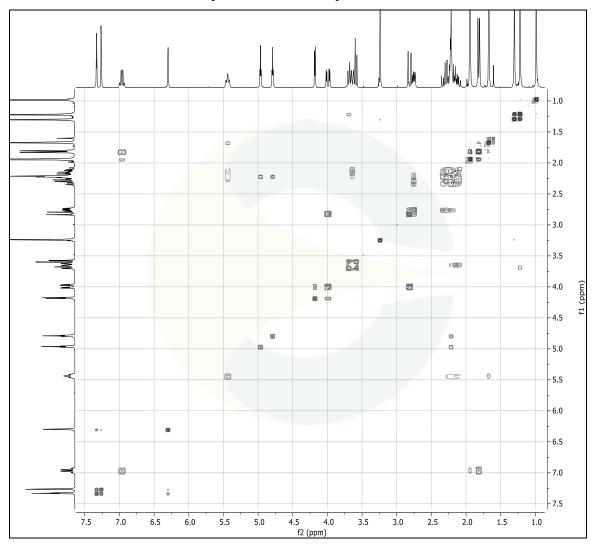




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### COSY-NMR SPECTRUM OF SALANNIN (CDXP-20-00778) IN CDCI<sub>3</sub> + TMS



## **REVISION HISTORY**

Revision History	Date of Revision	Document/Changes
INC VISION I HISTORY	Date of Revision	Docorrion, changes

00 11/11/2020 New report

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