





Certificate of Analysis

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PRODUCT NAME 12-Deoxywithastramonolide

PART NUMBER 00023256

STANDARD TYPE Primary (P)

LOT NUMBER 00023256-001

REPORT NUMBER CDXA-RSS-9213-00

SAMPLE NUMBER CDXP-20-00788

DATE OF SAMPLE 10/29/2020

DATE OF REPORT 12/01/2020

CHEMICAL NAMES 27-Hydroxywithanolide B; Baimantuoluoside C aglycone

CHEMICAL FORMULA C₂₈H₃₈O₆

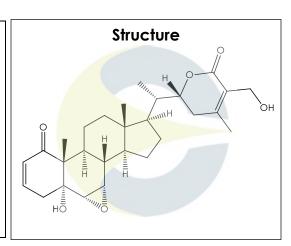
MOLECULAR WEIGHT (MW) 470.60

CHEMICAL FAMILY Steroids

CAS NUMBER [60124-17-6]

EC#(EINECS) N/A

RTECS N/A



ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	96.1%
HPLC	0.700.10.2.METH22	≥ 90%	96.4%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	DCM – 2230 ppm Acetone – 863 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 96.1% IS BASED ON (100 - 0.3 SOLVENTS - 0.0 WATER) X 96.4% HPLC

STORAGE CONDITIONS

STORAGE +4 °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

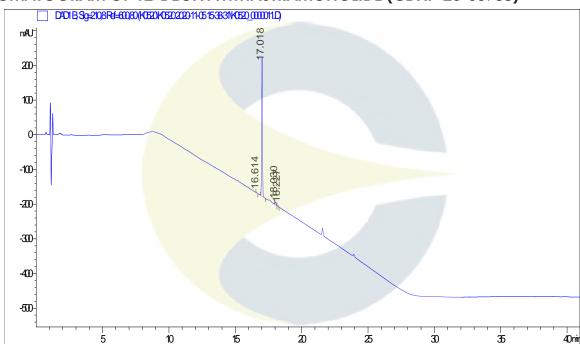
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.4 μL

INJECTION CONC. 1.2 mg/mL in Methanol

DETECTION $210 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF 12-DEOXYWITHASTRAMONOLIDE (CDXP-20-00788)





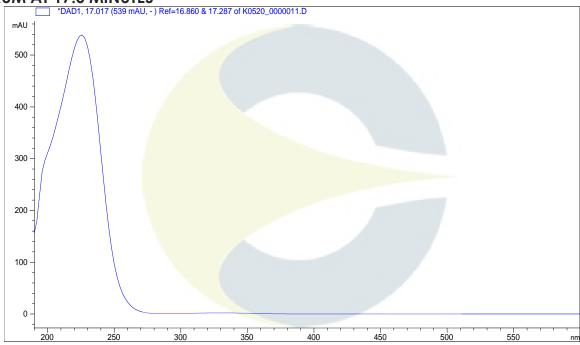




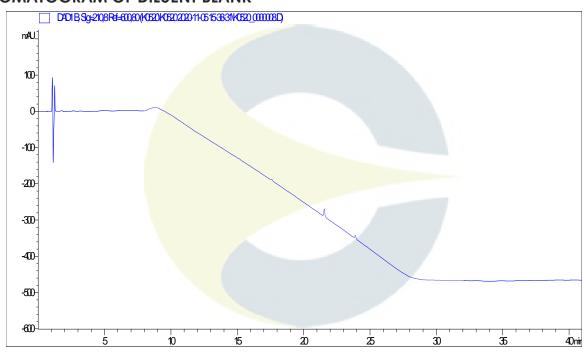
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UV SPECTRUM AT 17.0 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





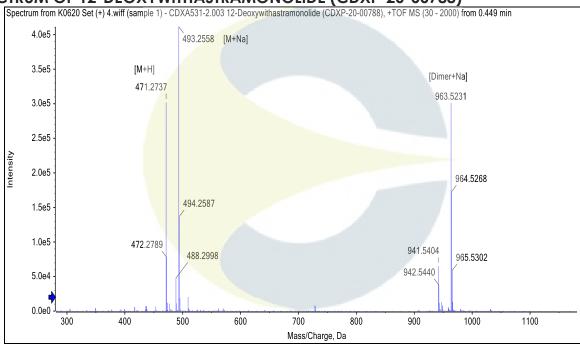




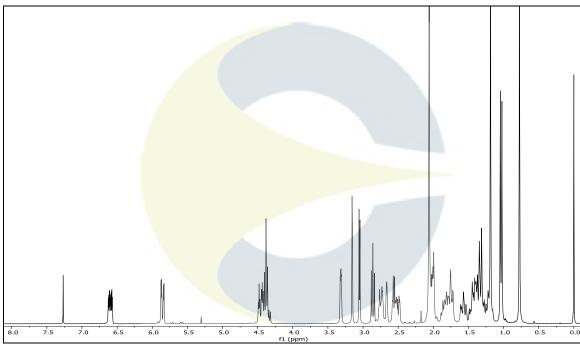
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MASS SPECTRUM OF 12-DEOXYWITHASTRAMONOLIDE (CDXP-20-00788)



¹H-NMR SPECTRUM OF 12-DEOXYWITHASTRAMONOLIDE (CDXP-20-00788) IN CDCl₃





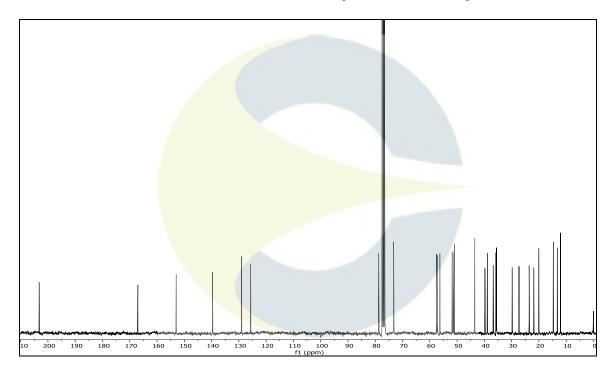




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¹³C-NMR SPECTRUM 12-DEOXYWITHASTRAMONOLIDE (CDXP-20-00788) IN CDCl₃





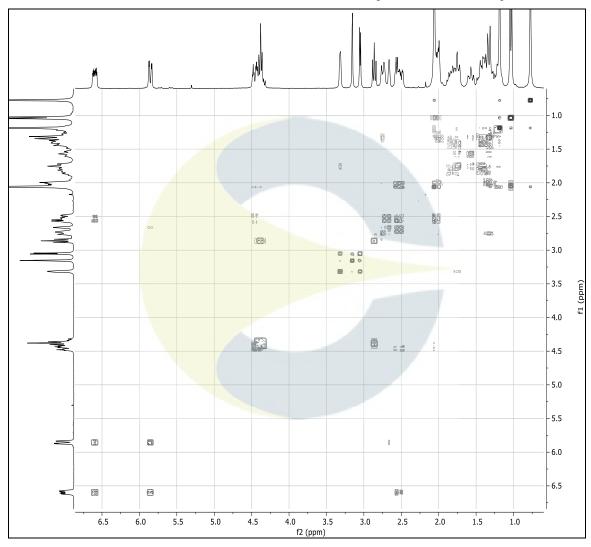




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COSY-NMR SPECTRUM OF 12-DEOXYWITHASTRAMONOLIDE (CDXP-20-00788) IN CDCI₃



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	Document/Changes
00	12/01/2020	New report