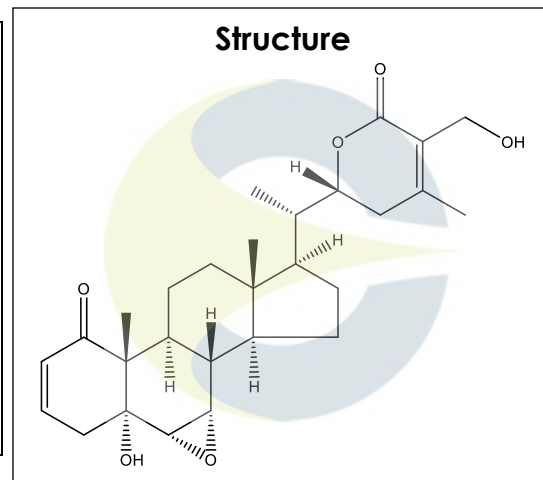


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PRODUCT NAME	12-Deoxy-Withastramonolide
PART NUMBER	00023256
STANDARD TYPE	Primary (P)
LOT NUMBER	00023256-2DW
REPORT NUMBER	CDXA-RSS-10460-00
SAMPLE NUMBER	CHA203570
DATE OF SAMPLE	15Feb2024
DATE OF REPORT	07Mar2024



CHEMICAL NAMES	27-Hydroxywithanolide B; Baimantuoluoside C aglycone
CHEMICAL FORMULA	C ₂₈ H ₃₈ O ₆
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%	99.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.9%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	02/2029 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;

Minutes	%A	%B
0.0	95	5
5.0	95	5
25.0	5	95
40.0	5	95
41.0	95	5

COLUMN TEMP. 60 °C

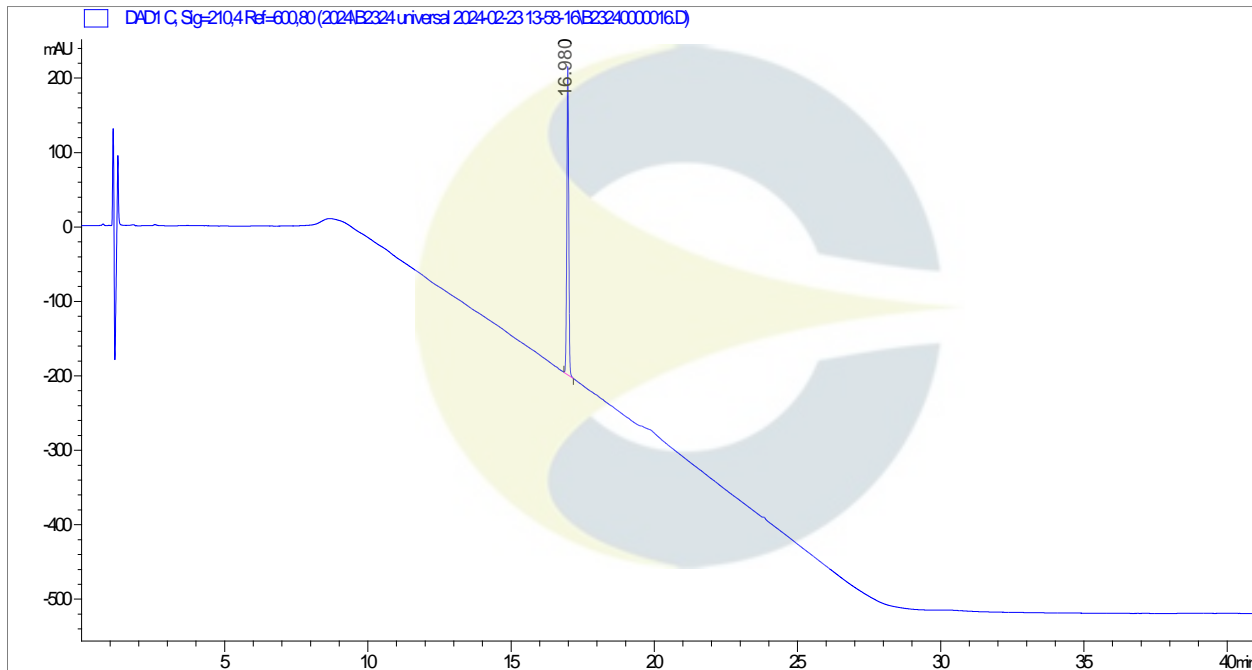
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.5 µL

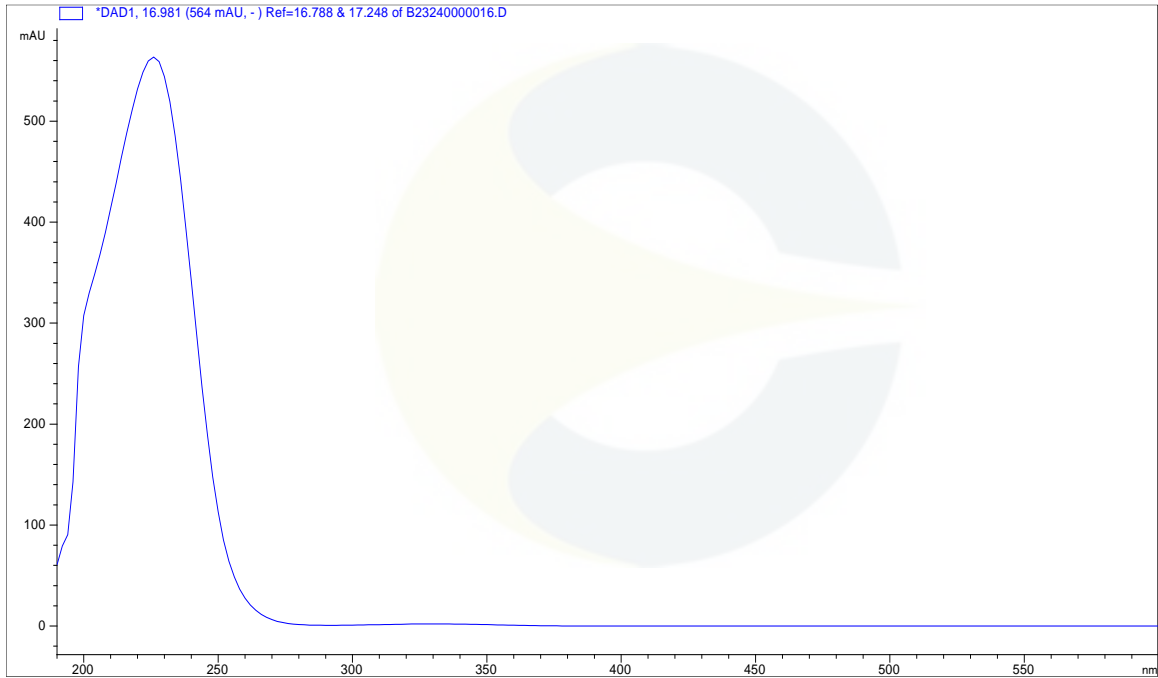
INJECTION CONC. 1.5 mg/mL in Methanol

DETECTION 210 ± 2 nm

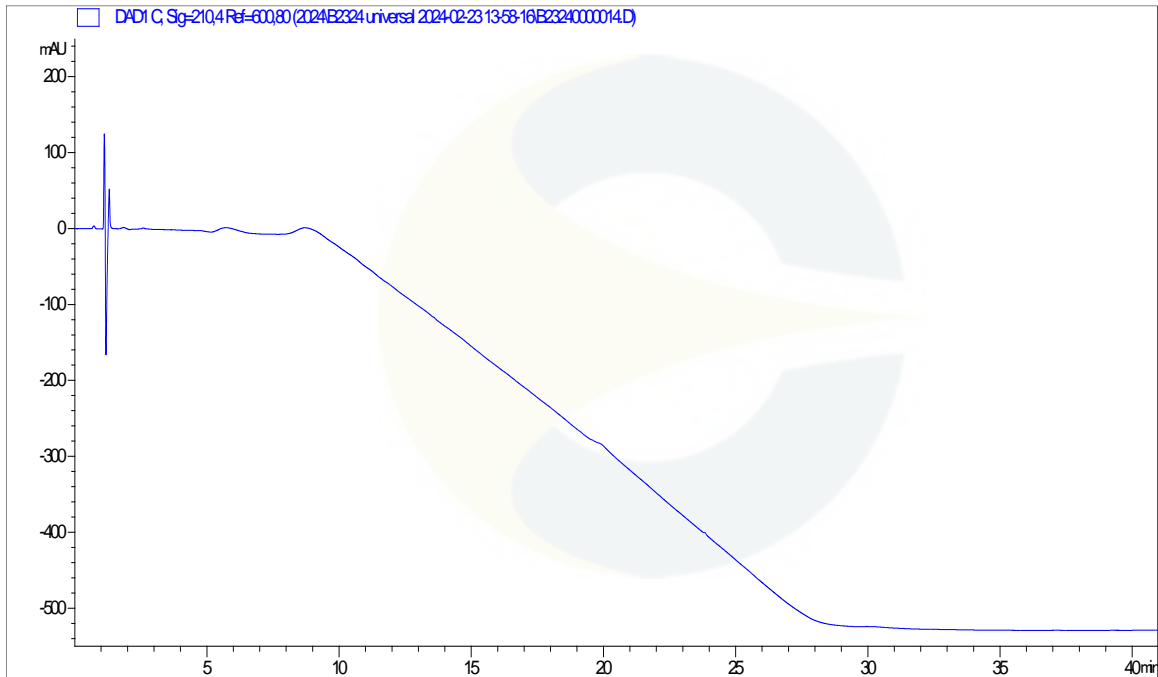
HPLC CHROMATOGRAM OF 12-DEOXY-WITHASTRAMONOLIDE (00023256-2DW)



UV SPECTRUM AT 17.0 MINUTES

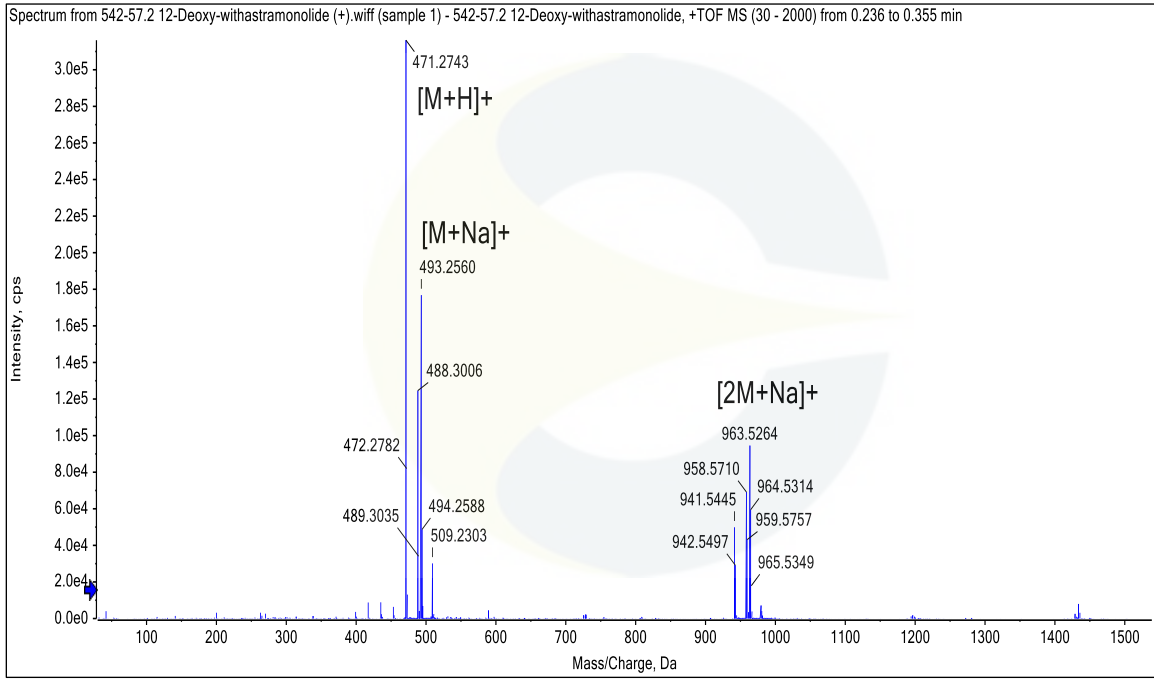


HPLC CHROMATOGRAM OF DILUENT BLANK

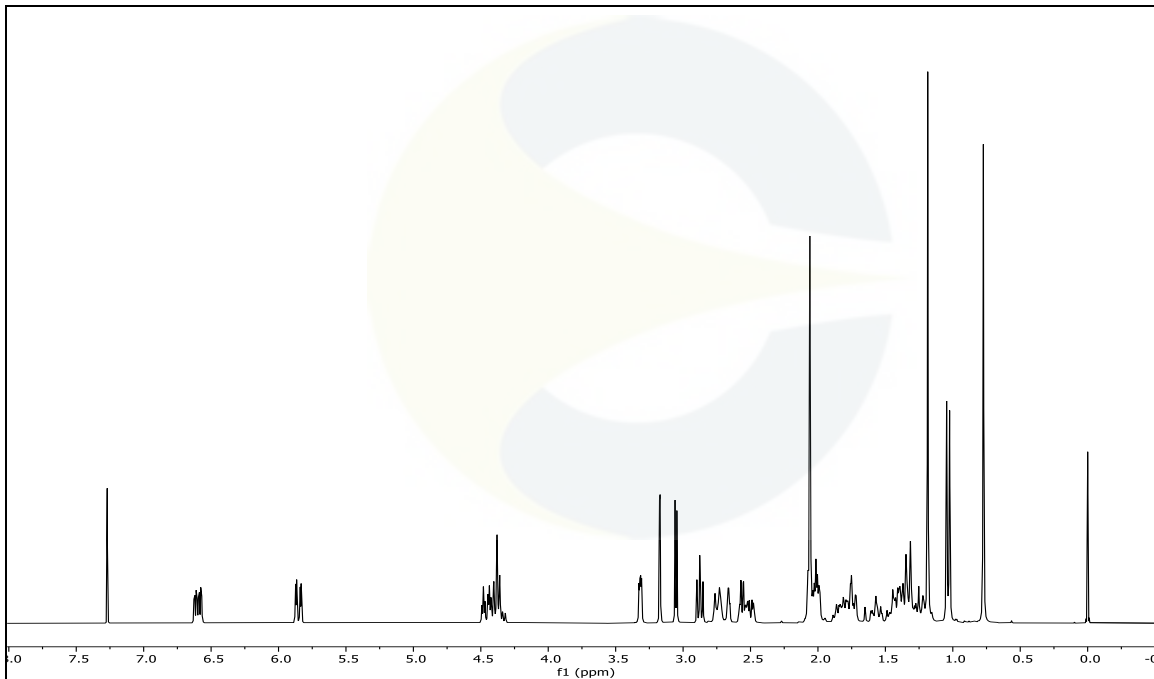


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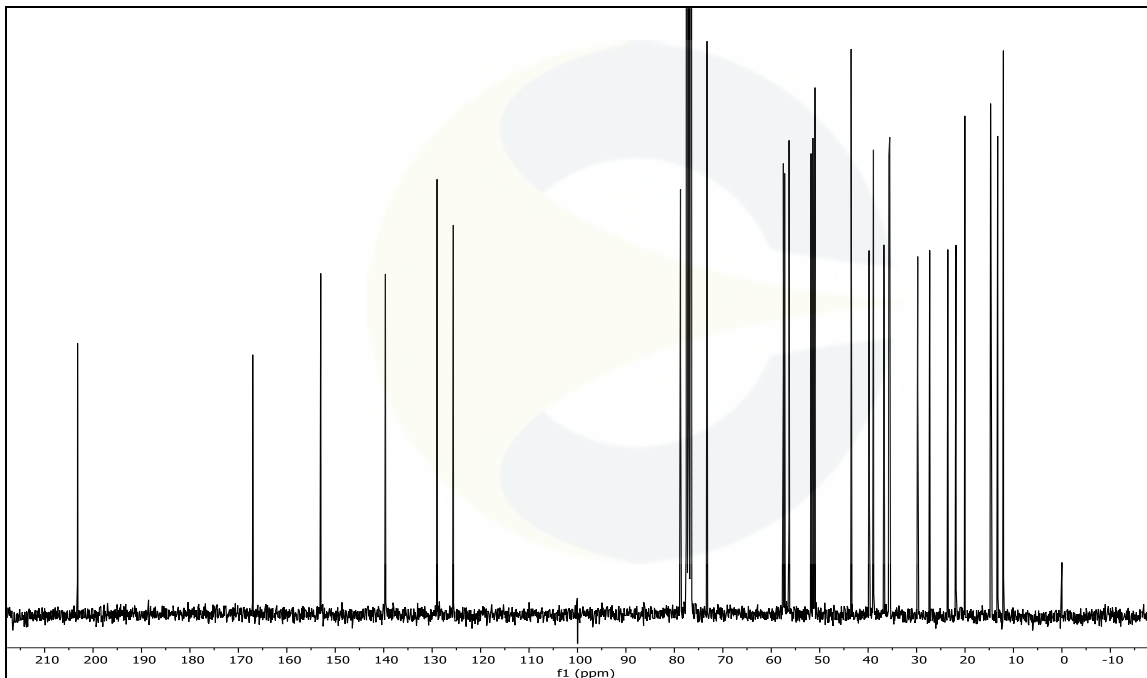
MASS SPECTRUM OF 12-DEOXY-WITHASTRAMONOLIDE (00023256-2DW)



¹H-NMR SPECTRUM OF 12-DEOXY-WITHASTRAMONOLIDE (00023256-2DW) IN CDCl₃ + TMS

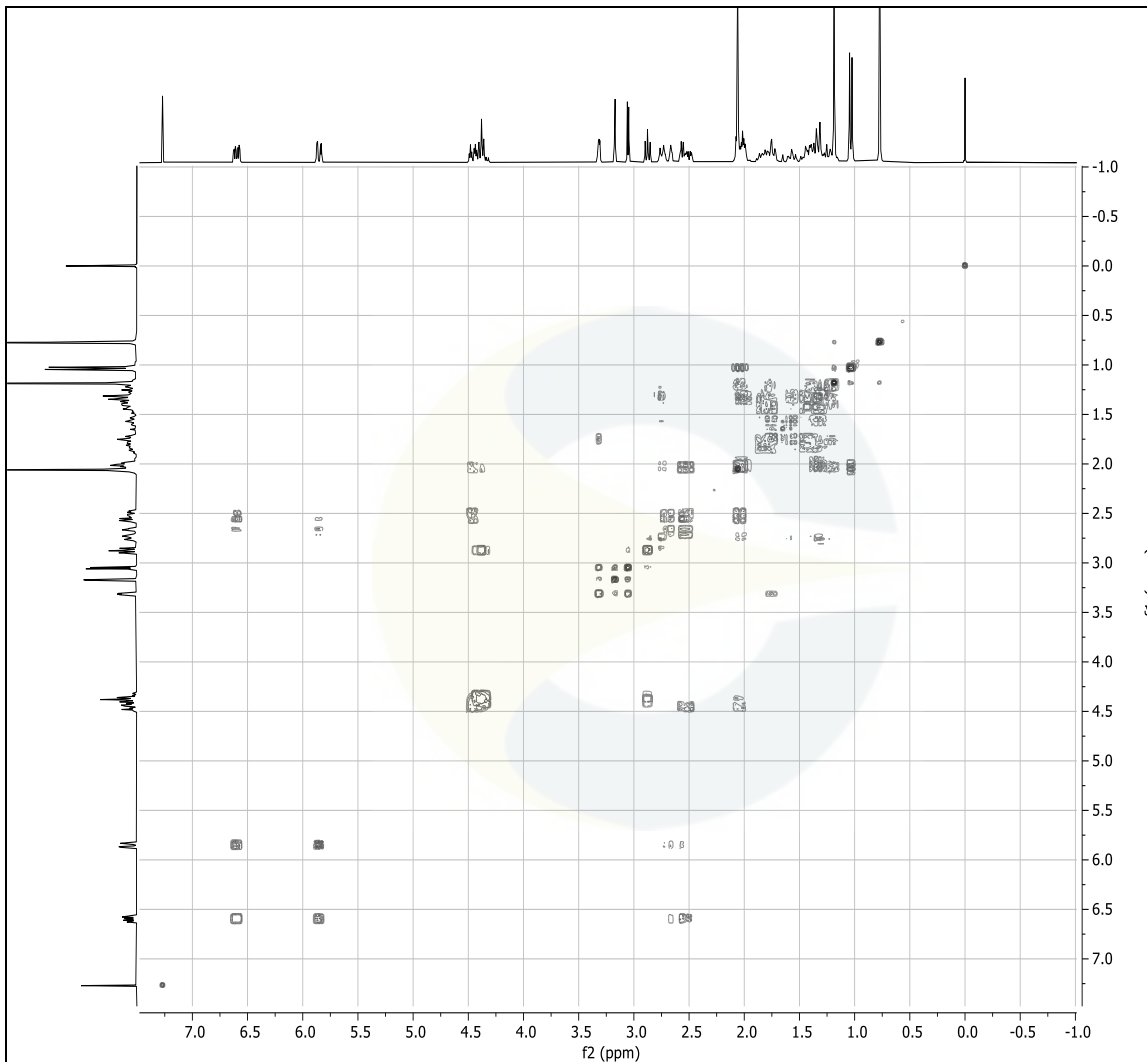


¹³C-NMR SPECTRUM 12-DEOXY-WITHASTRAMONOLIDE (00023256-2DW) IN CDCl₃ + TMS



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COSY-NMR SPECTRUM OF 12-DEOXY-WITHASTRAMONOLIDE (00023256-2DW) IN CDCl₃ + TMS



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	07Mar2024	New report