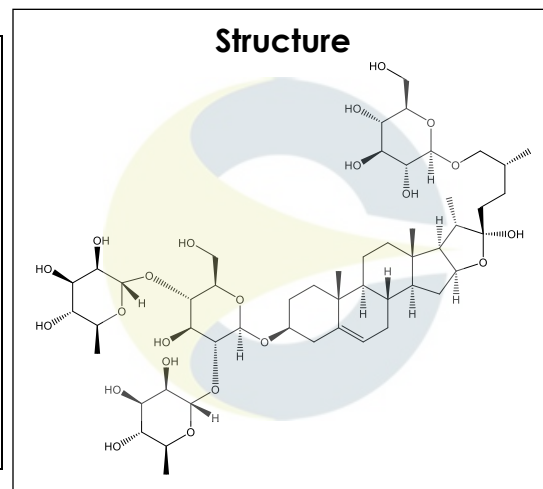


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PRODUCT NAME	Protodioscin
PART NUMBER	00016310
STANDARD TYPE	Primary (P)
LOT NUMBER	00016310-301
REPORT NUMBER	CDXA-RSS-9312-00
SAMPLE NUMBER	CDXP-21-00157
DATE OF SAMPLE	03/08/2021
DATE OF REPORT	03/31/2021



CHEMICAL NAMES	3β,22α,26-Trihydroxyfurost-5-ene-3-O-β-chacotrioxide-26-O-β-D-glucopyranoside
CHEMICAL FORMULA	C ₅₁ H ₈₄ O ₂₂
MOLECULAR WEIGHT (MW)	1049.20
CHEMICAL FAMILY	Saponins
CAS NUMBER	[55056-80-9]
EC#(EINECS)	N/A
RTECS	LZ5859000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	94.3%
HPLC	0.700.10.2.METH22	≥ 90%	96.9%
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	2.7%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 94.3% IS BASED ON (100 - 0.0 SOLVENTS - 2.7 WATER) X 96.9% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	03/2026 under the above conditions.

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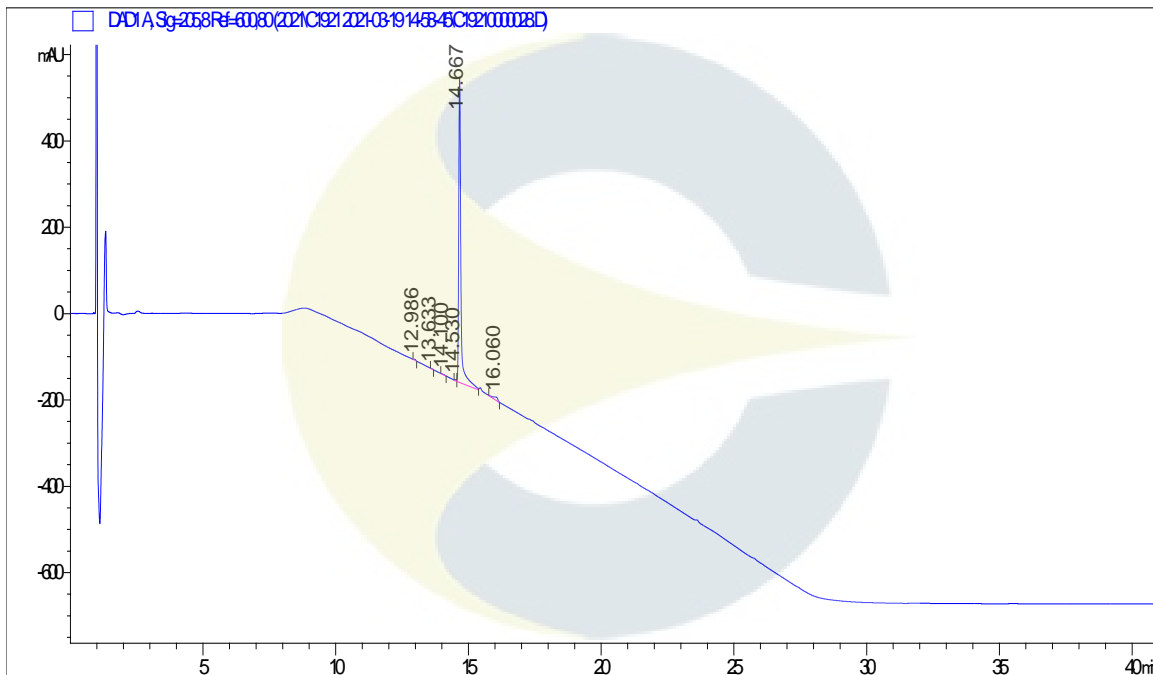
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ANALYTICAL CONDITIONS

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.	10.0 µL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	205 ± 4 nm

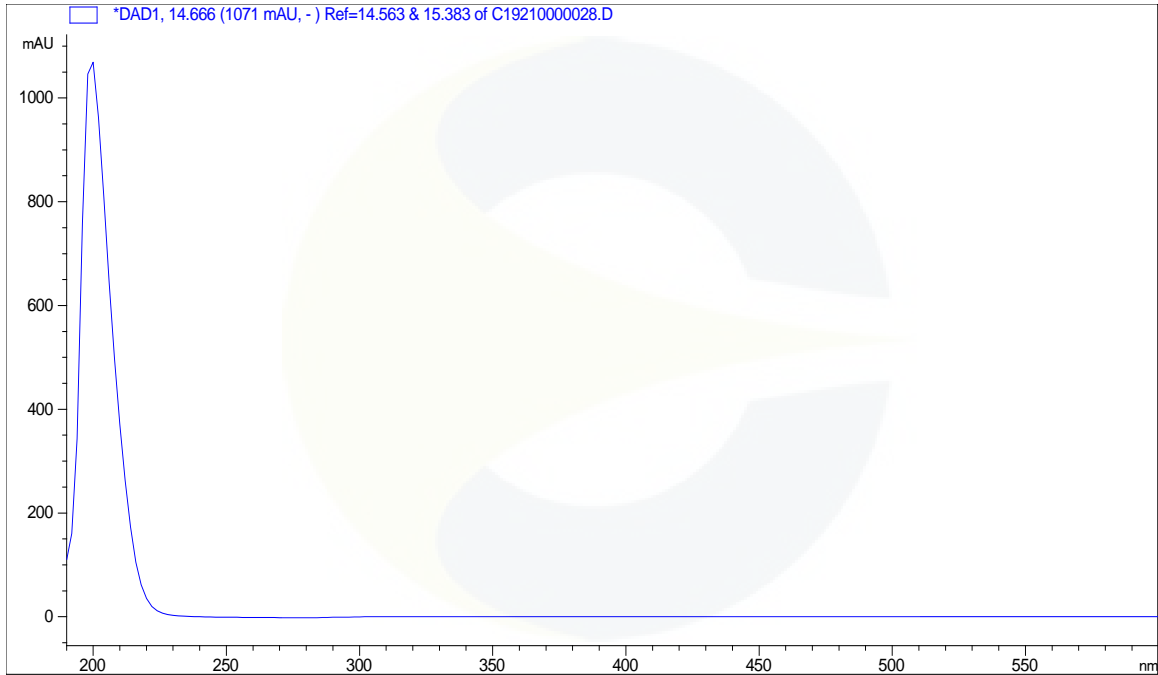
HPLC CHROMATOGRAM OF PROTODIOSCIN (CDXP-21-00157)



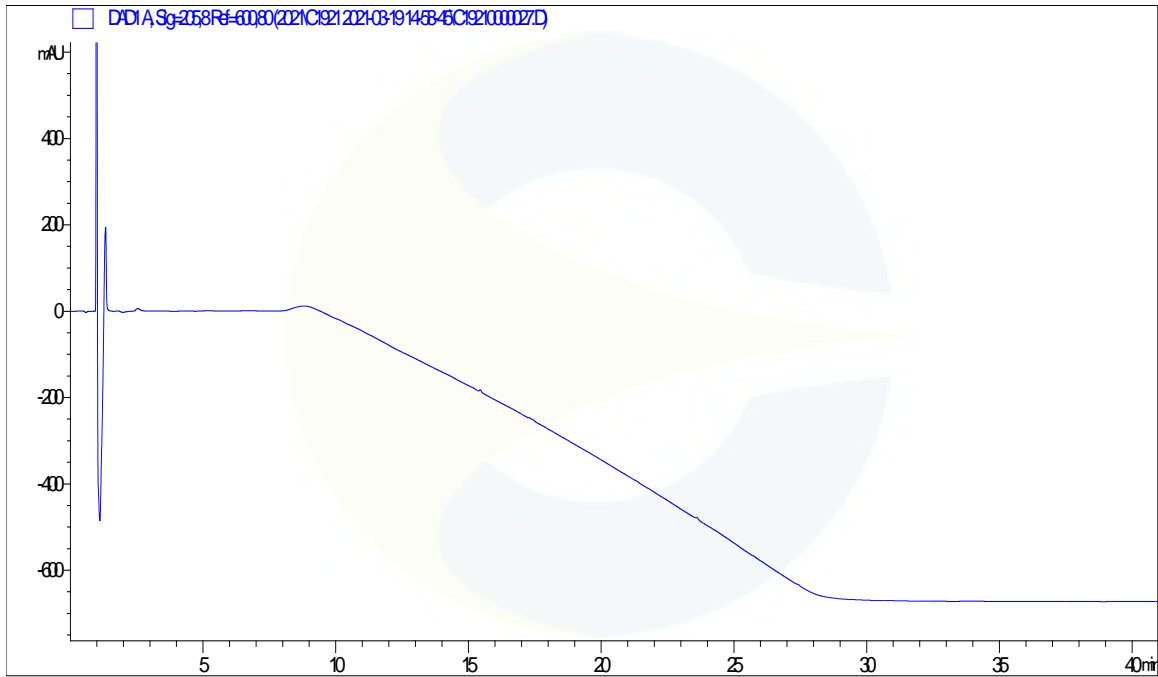
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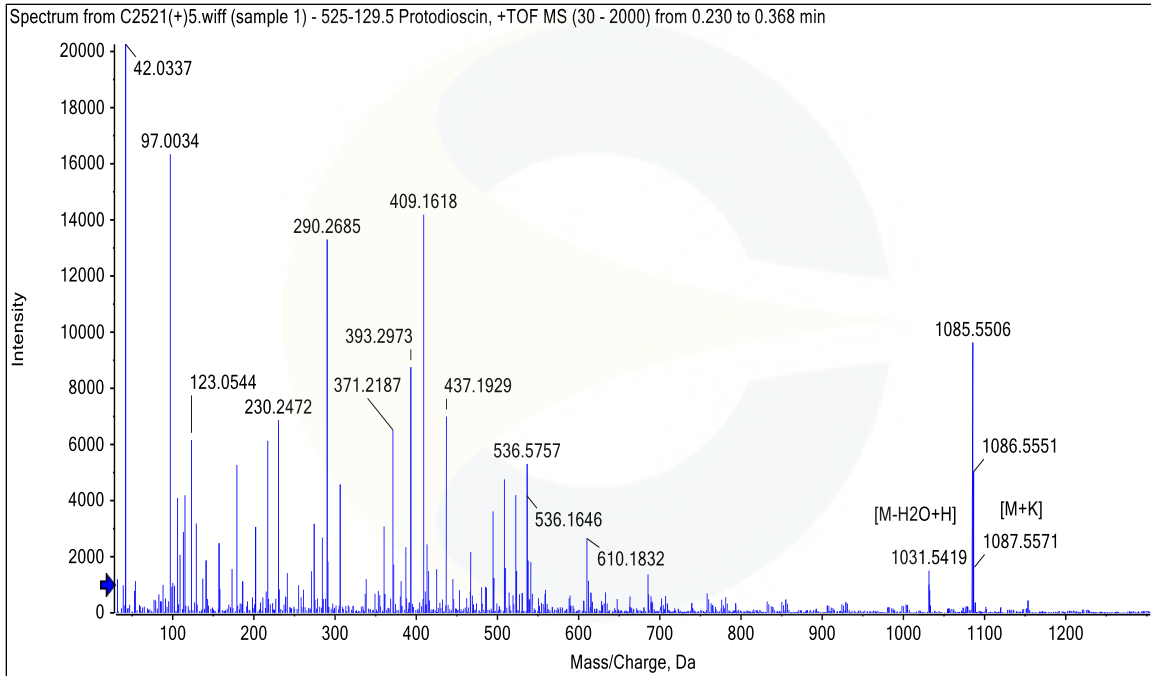
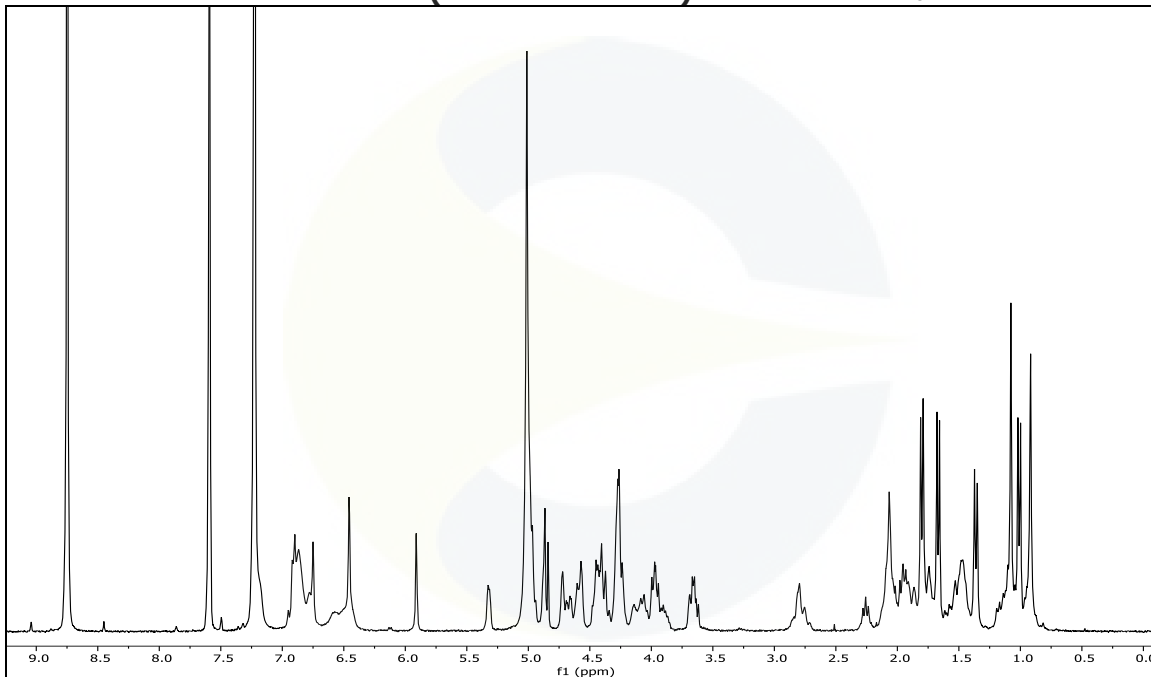
UV SPECTRUM AT 14.7 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



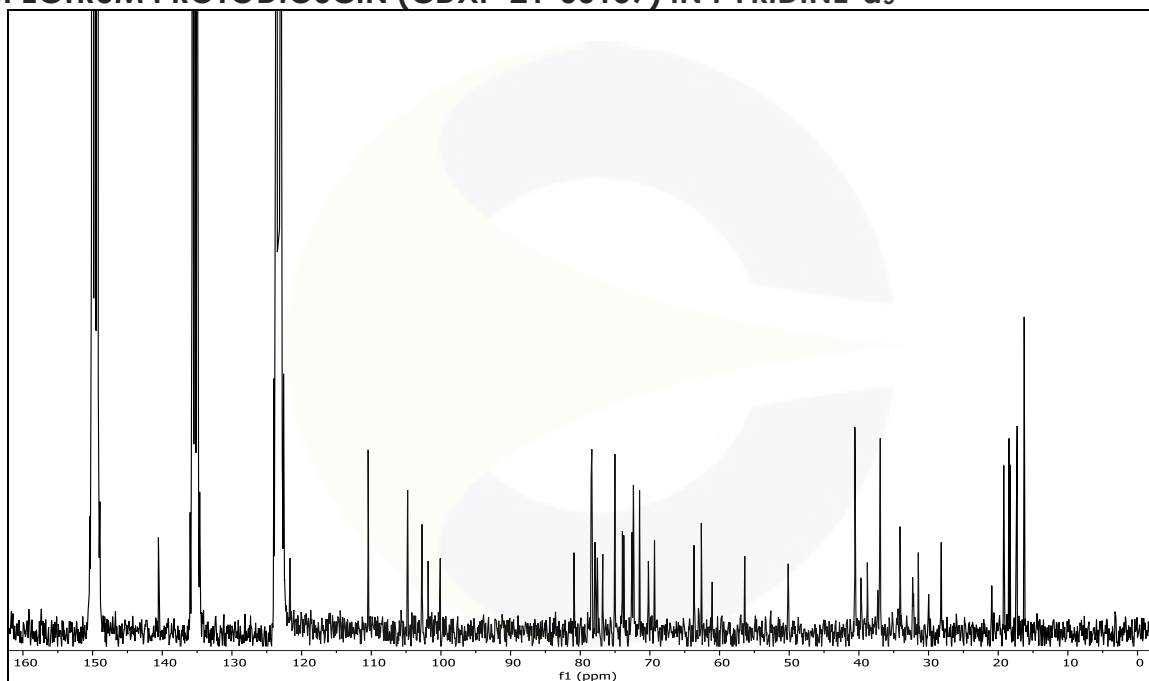
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MASS SPECTRUM OF PROTODIOSCIN (CDXP-21-00157)

¹H-NMR SPECTRUM OF PROTODIOSCIN (CDXP-21-00157) IN PYRIDINE-d₅


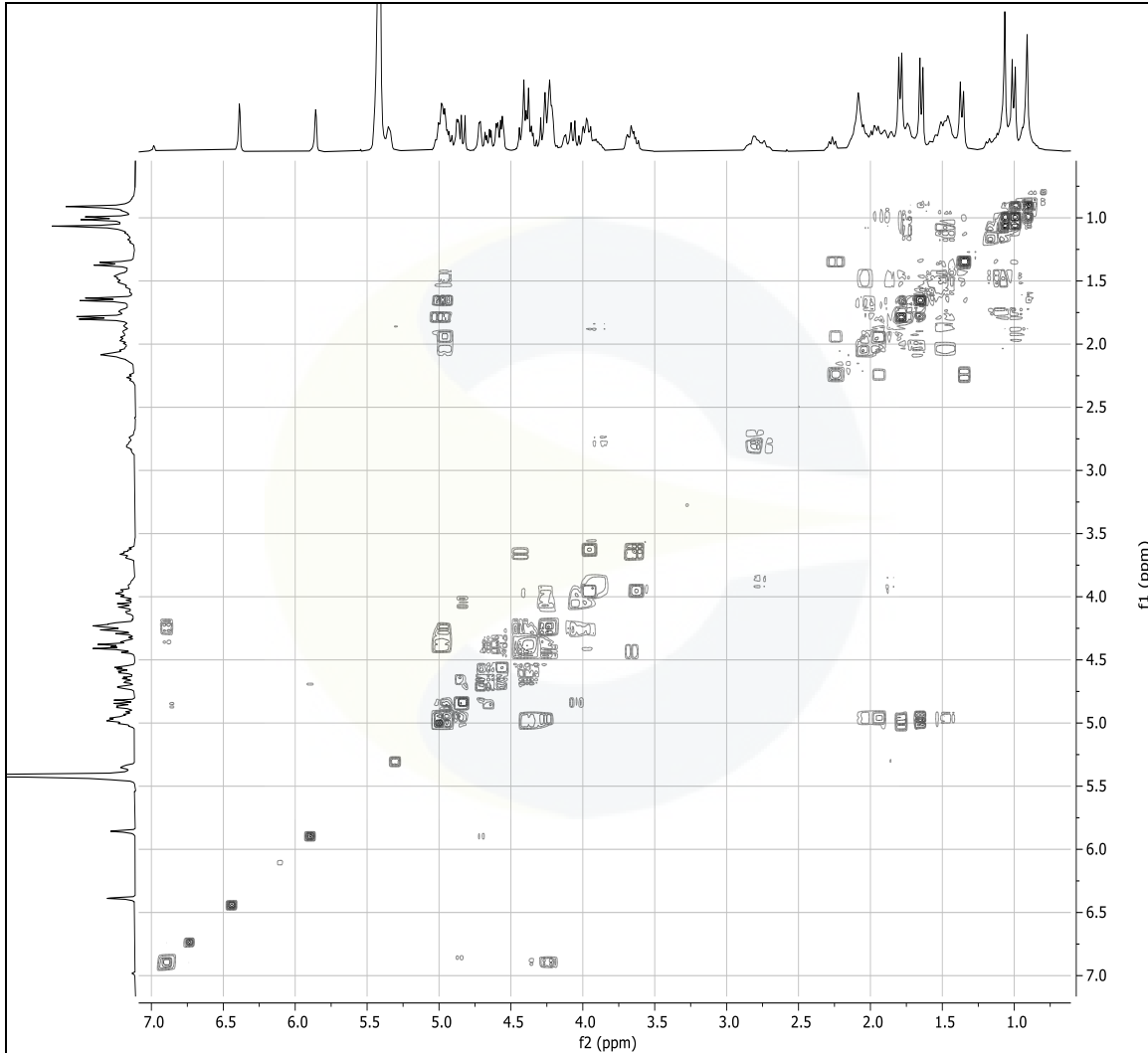
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¹³C-NMR SPECTRUM PROTODIOSCIN (CDXP-21-00157) IN PYRIDINE-*d*₅

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COSY-NMR SPECTRUM OF PROTODIOSCIN (CDXP-21-00157) IN PYRIDINE-d₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/31/2021	New report

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