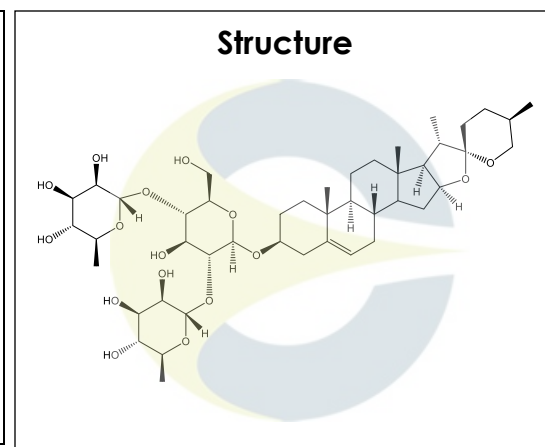


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PRODUCT NAME	Dioscin
PART NUMBER	00004914
STANDARD TYPE	Primary (P)
LOT NUMBER	00004914-00581
REPORT NUMBER	CDXA-RSS-9474-00
SAMPLE NUMBER	CDXP-21-00581
DATE OF SAMPLE	08/19/2021
DATE OF REPORT	09/08/2021



CHEMICAL NAMES	(3β,25R)-spirost-5-en-3-yl O-6-deoxy-α-L-mannopyranosyl-(1→2)-O-[6-deoxy-α-L-mannopyranosyl-(1→4)]-β-D-glucopyranoside; Collettiside III; Dioscine
CHEMICAL FORMULA	C ₄₅ H ₇₂ O ₁₆
MOLECULAR WEIGHT (MW)	869.04
CHEMICAL FAMILY	Saponins
CAS NUMBER	[19057-60-4]
EC#(EINECS)	866-819-8
RTECS	LZ6405000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	87.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.1%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent*	99.1-CD-9.0-000115	NA	MeOH < 0.1%; EtOAc < 0.1%
Water	0.700.12.37	NA	11.3%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 87.9% IS BASED ON (100 - 0.0 SOLVENTS - 11.3 WATER) X 99.1% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	08/2026 under the above conditions.

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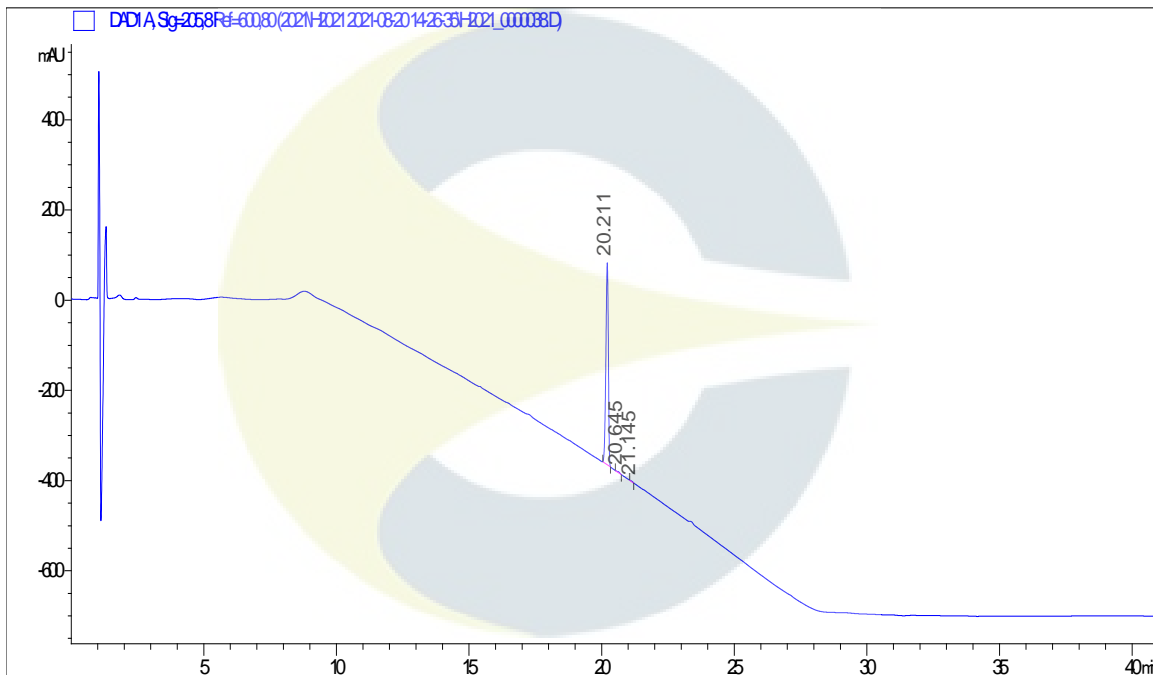
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ANALYTICAL CONDITIONS

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.	4.0 µL
INJECTION CONC.	1.3 mg/mL in Methanol
DETECTION	205 ± 4 nm

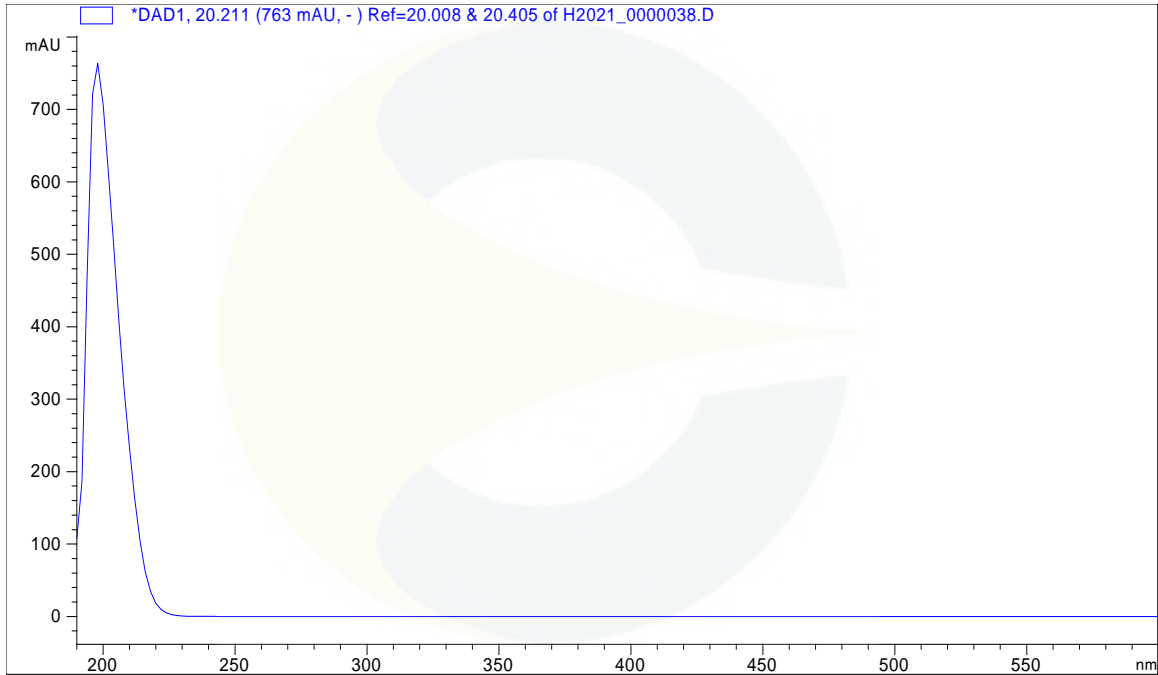
HPLC CHROMATOGRAM OF DIOSCIN (CDXP-21-00581)



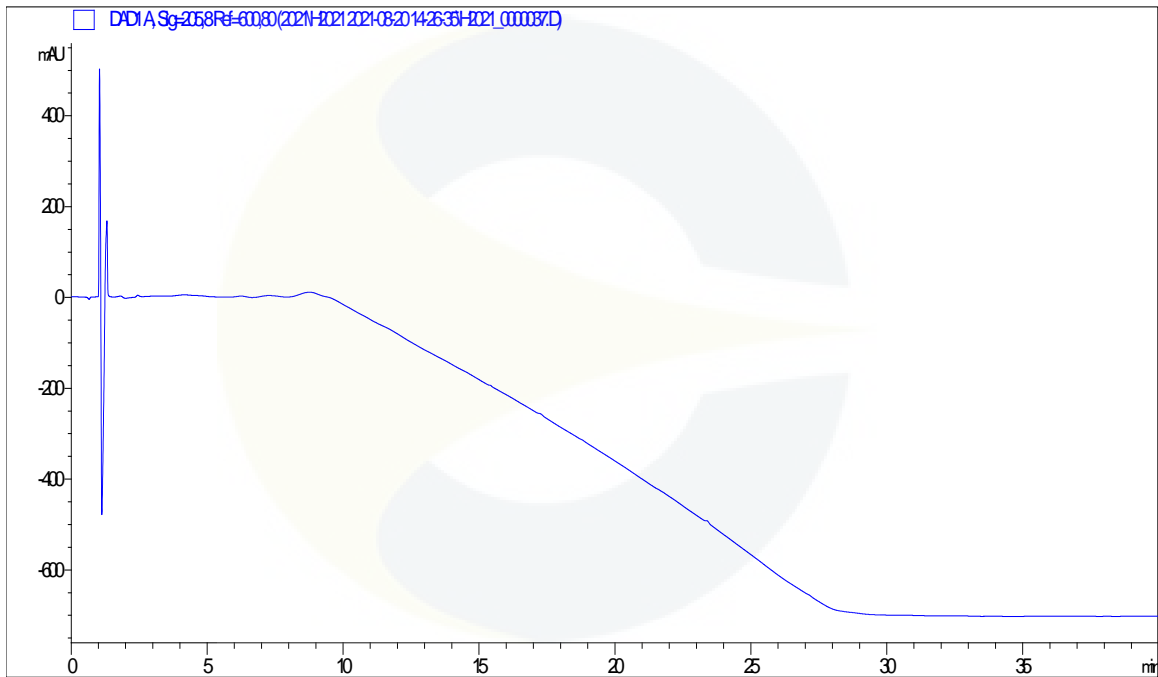
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UV SPECTRUM AT RT = 20.2 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



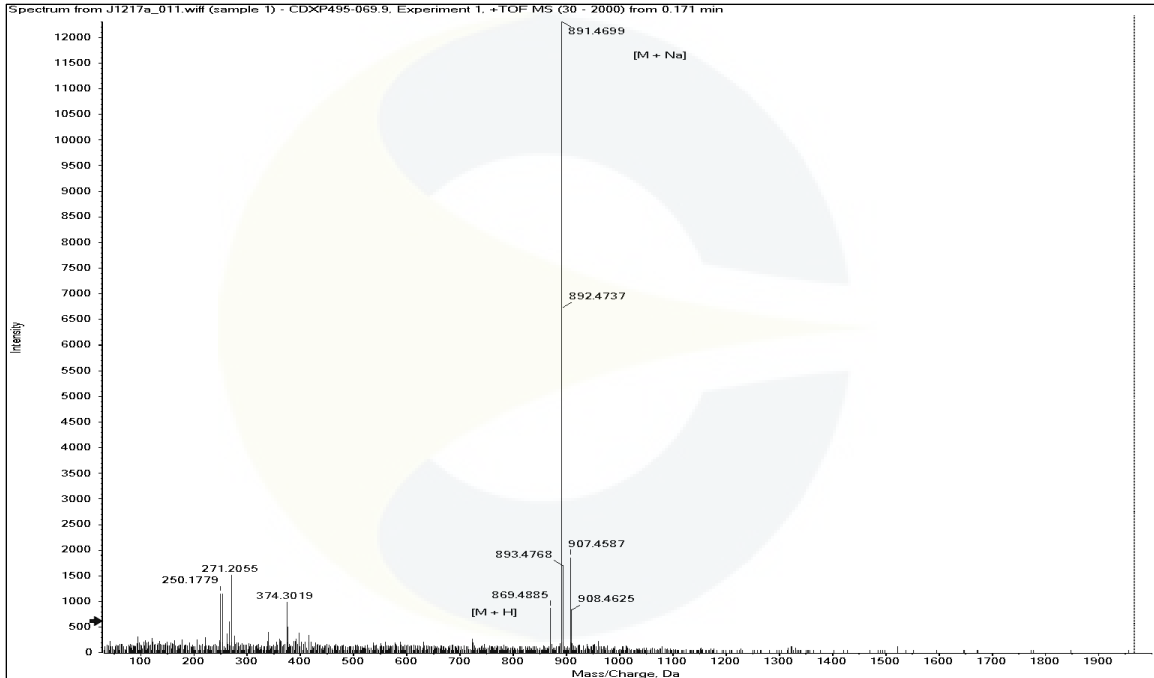
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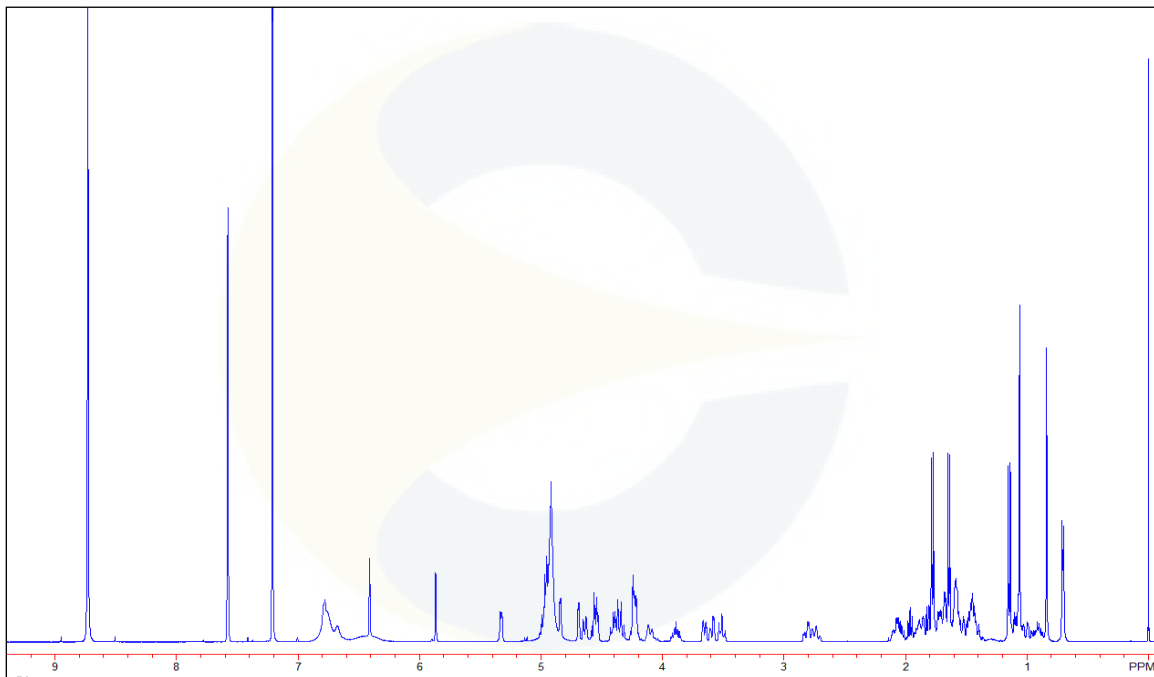
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Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

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MASS SPECTRUM OF DIOSCIN (CDXP-21-00581)



¹H-NMR SPECTRUM OF DIOSCIN (CDXP-21-00581) IN PYRIDINE-d₆

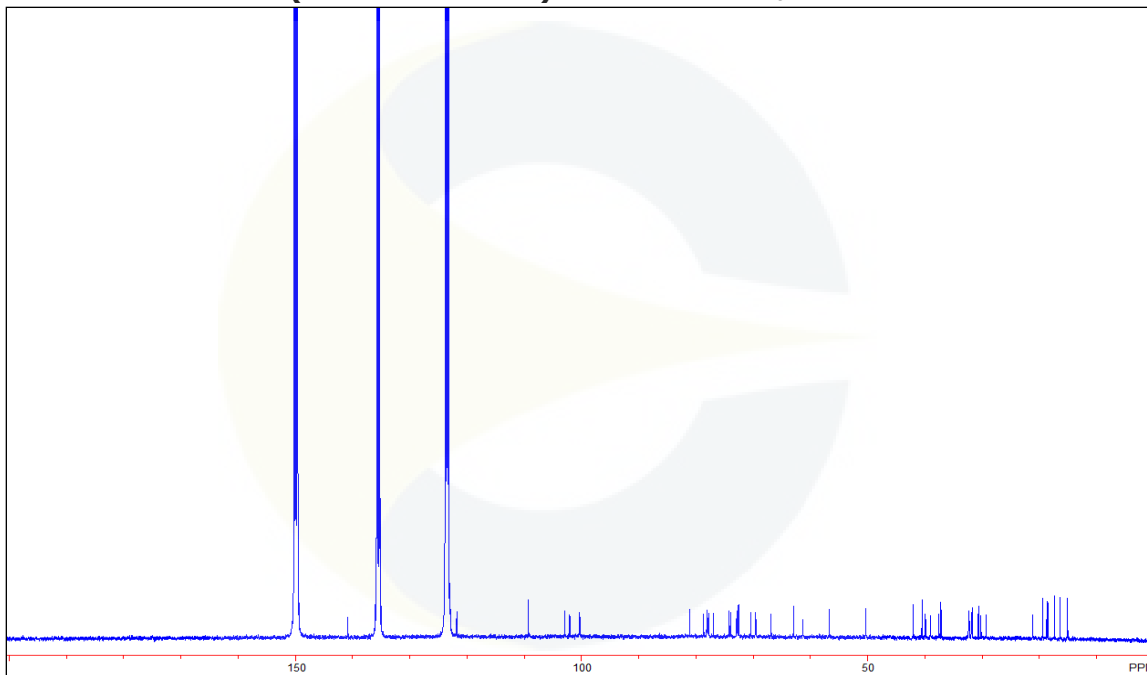


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¹³C-NMR SPECTRUM DIOSCIN (CDXP-21-00581) IN PYRIDINE-d₆



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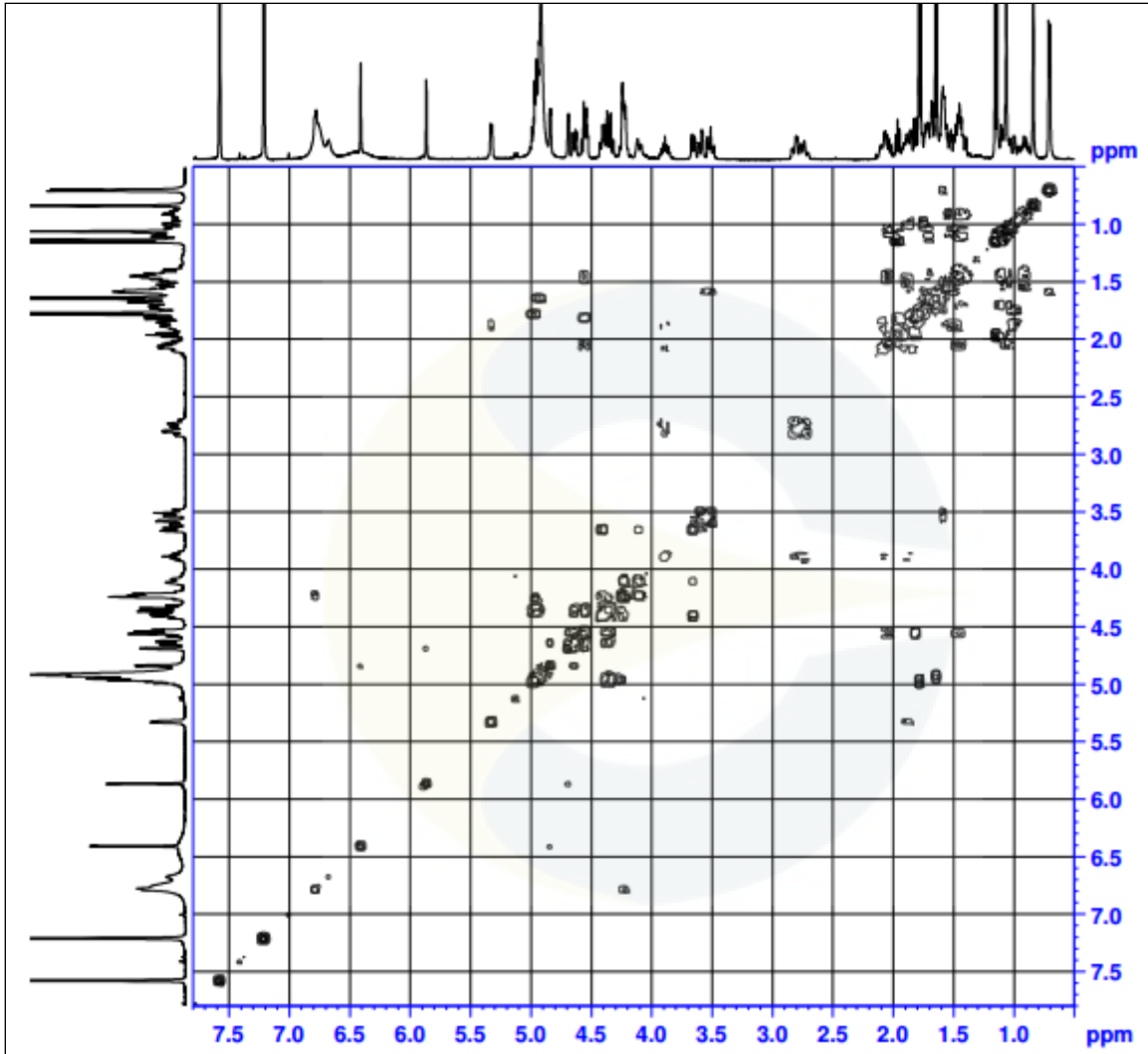
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COSY-NMR SPECTRUM OF DIOSCIN (CDXP-21-00581) IN PYRIDINE-d₆



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/08/2021	New report

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