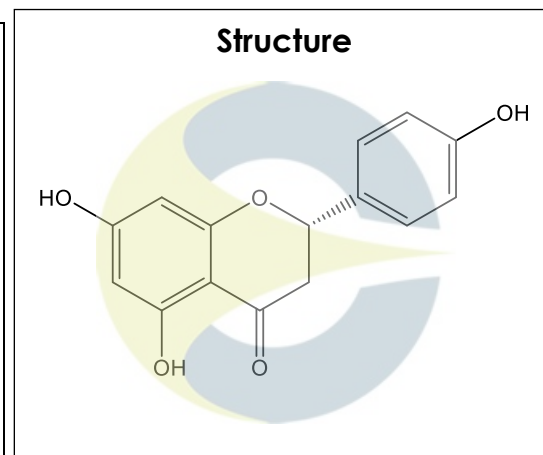


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PRODUCT NAME	Naringenin
PART NUMBER	00014205
STANDARD TYPE	Primary (P)
LOT NUMBER	00014205-219
REPORT NUMBER	CDXA-RSS-9702-00
SAMPLE NUMBER	CDXP-22-00182
DATE OF SAMPLE	03/02/2022
DATE OF REPORT	03/21/2022



CHEMICAL NAMES	(2S)-2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; 4',5,7-Trihydroxyflavanone; Naringenine; Naringetol; Salipurool; Salipurpol
CHEMICAL FORMULA	C ₁₅ H ₁₂ O ₅
MOLECULAR WEIGHT (MW)	272.25
CHEMICAL FAMILY	Flavonoids
CAS NUMBER	[480-41-1]
EC#(EINECS)	207-550-2
RTECS	DJ2981530

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.4%
HPLC	0.700.10.2.METH22	≥ 90%	99.0%
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: 6240 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Light yellow powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 98.4% IS BASED ON (100 - 0.6 SOLVENTS - 0.0 WATER) X 99.0% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	03/2027 under the above conditions.

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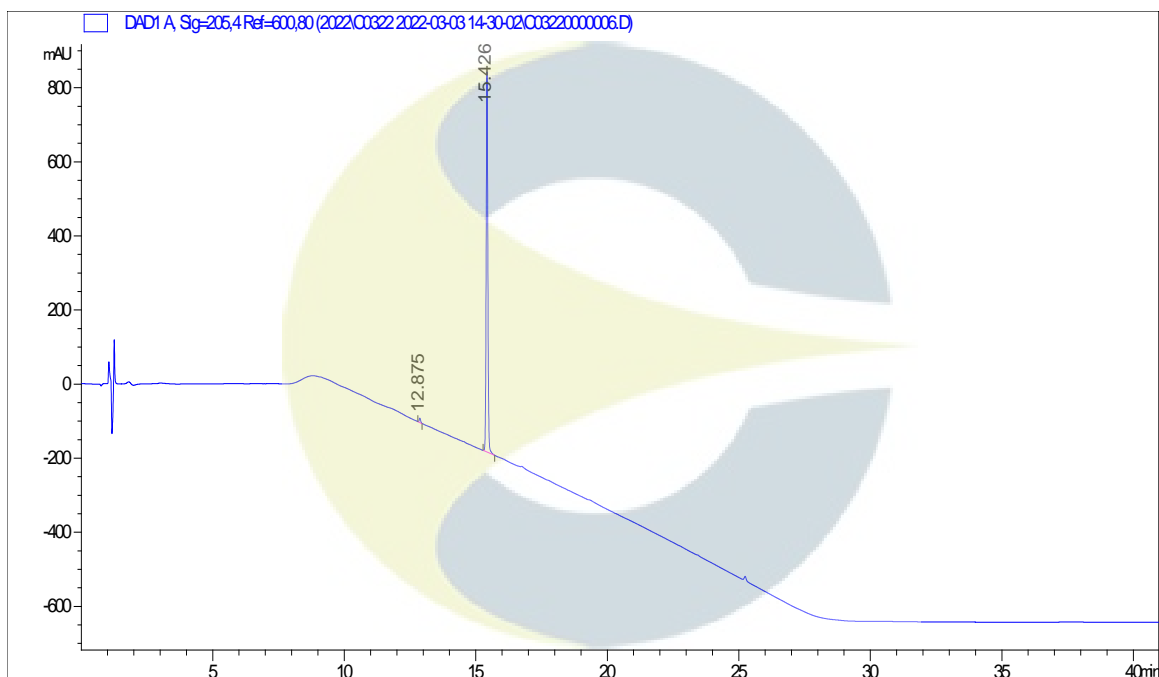
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ANALYTICAL CONDITIONS

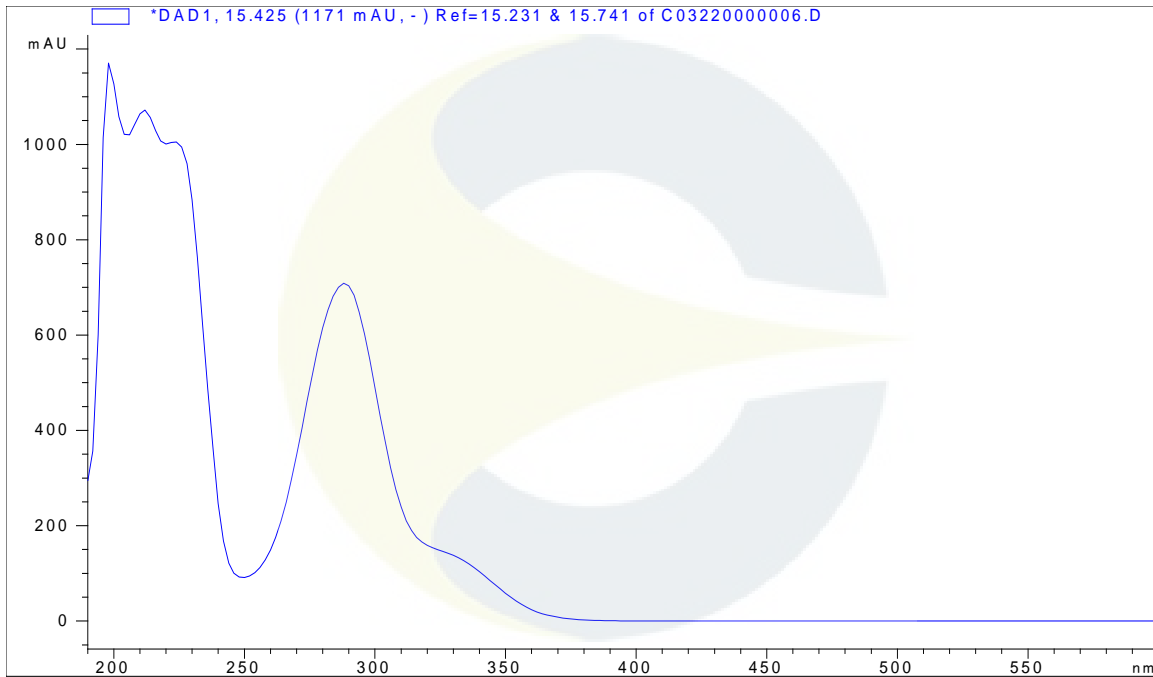
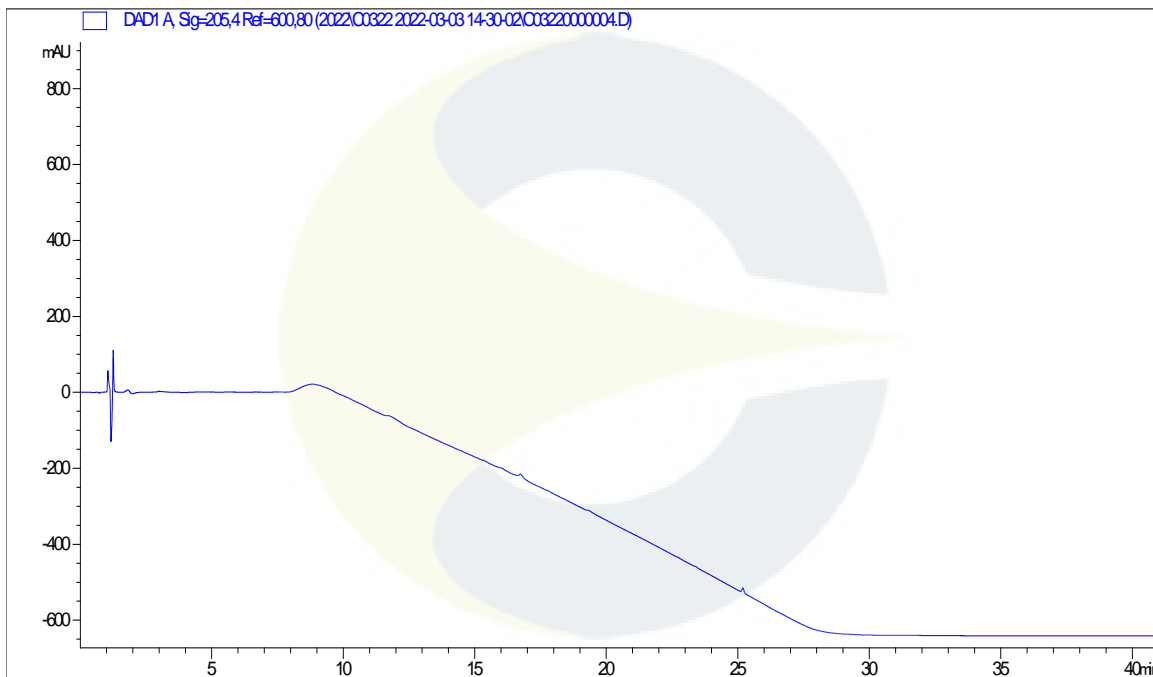
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.2 µL
INJECTION CONC.	1.5 mg/mL in Methanol
DETECTION	205 ± 4 nm

HPLC CHROMATOGRAM OF NARINGENIN (CDXP-22-00182)



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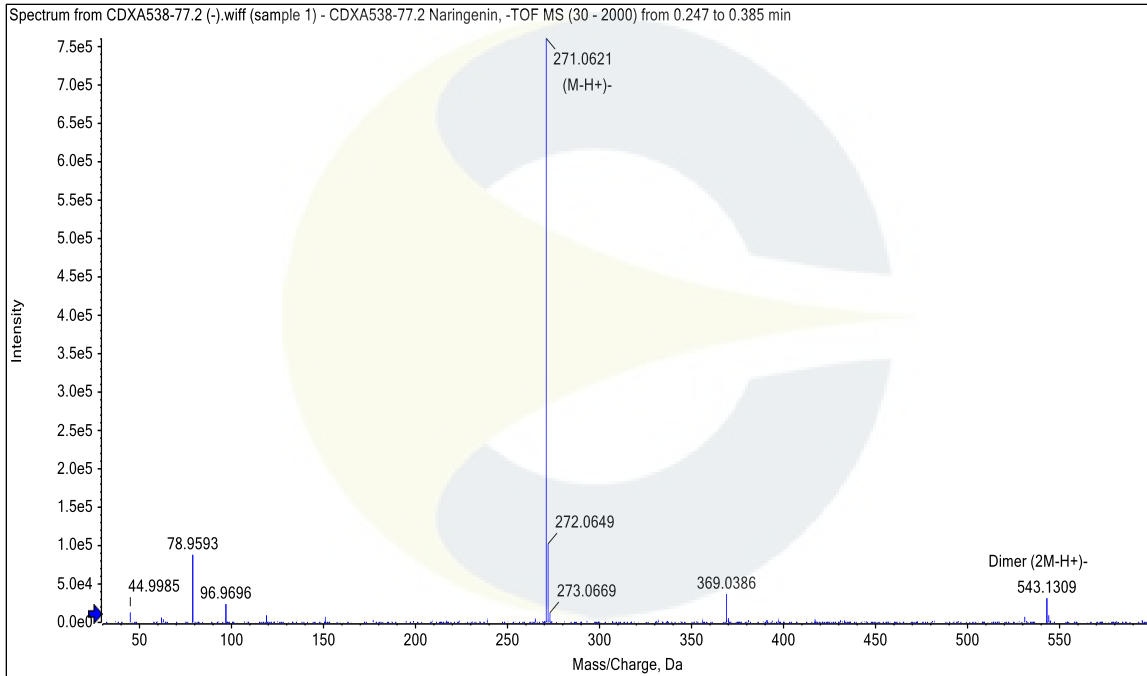
UV SPECTRUM AT RT = 15.4 MINUTES

HPLC CHROMATOGRAM OF DILUENT BLANK


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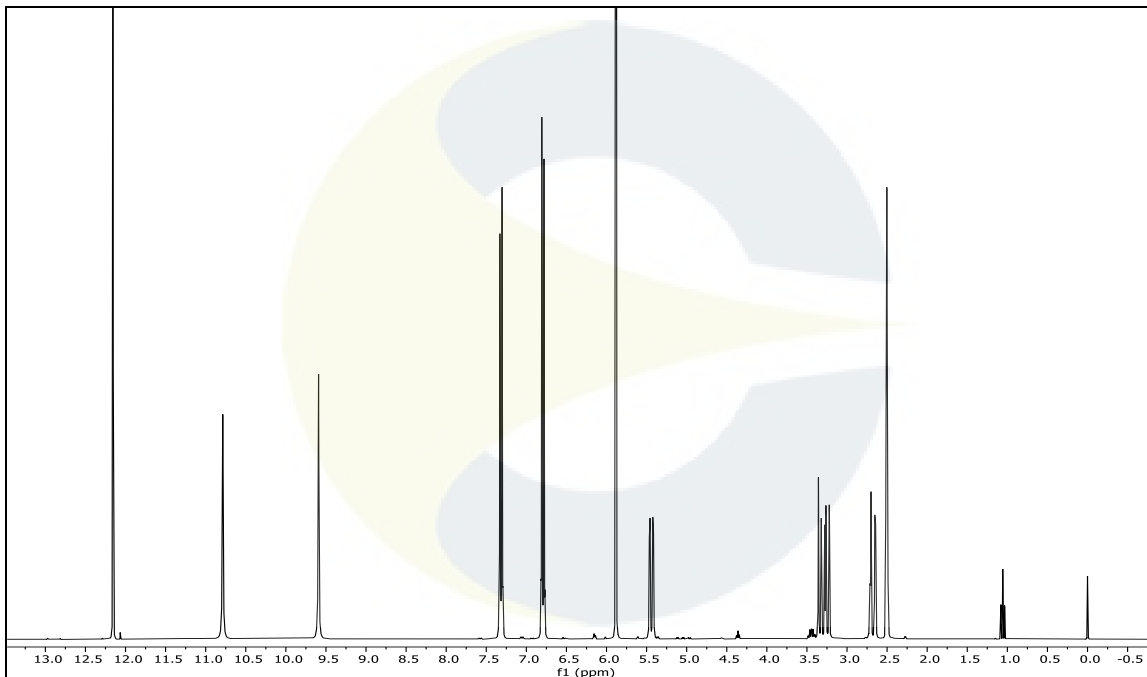
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 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

MASS SPECTRUM OF NARINGENIN (CDXP-22-00182)



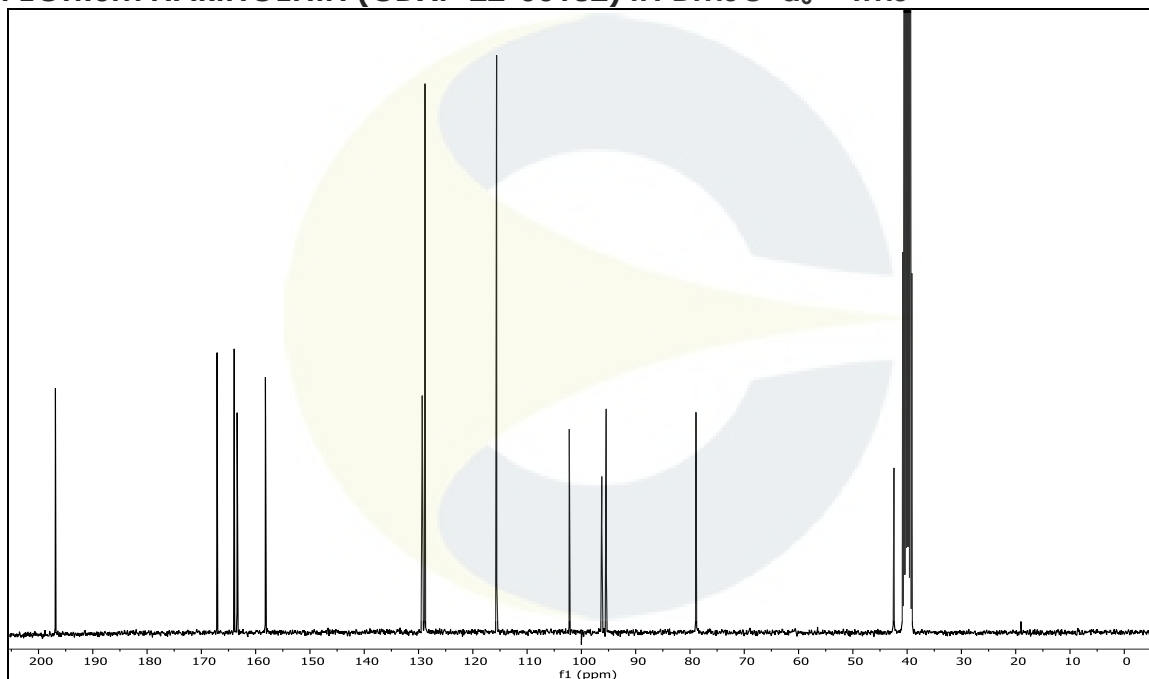
¹H-NMR SPECTRUM OF NARINGENIN (CDXP-22-00182) IN DMSO-d₆ + TMS



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¹³C-NMR SPECTRUM NARINGENIN (CDXP-22-00182) IN DMSO-d₆ + TMS

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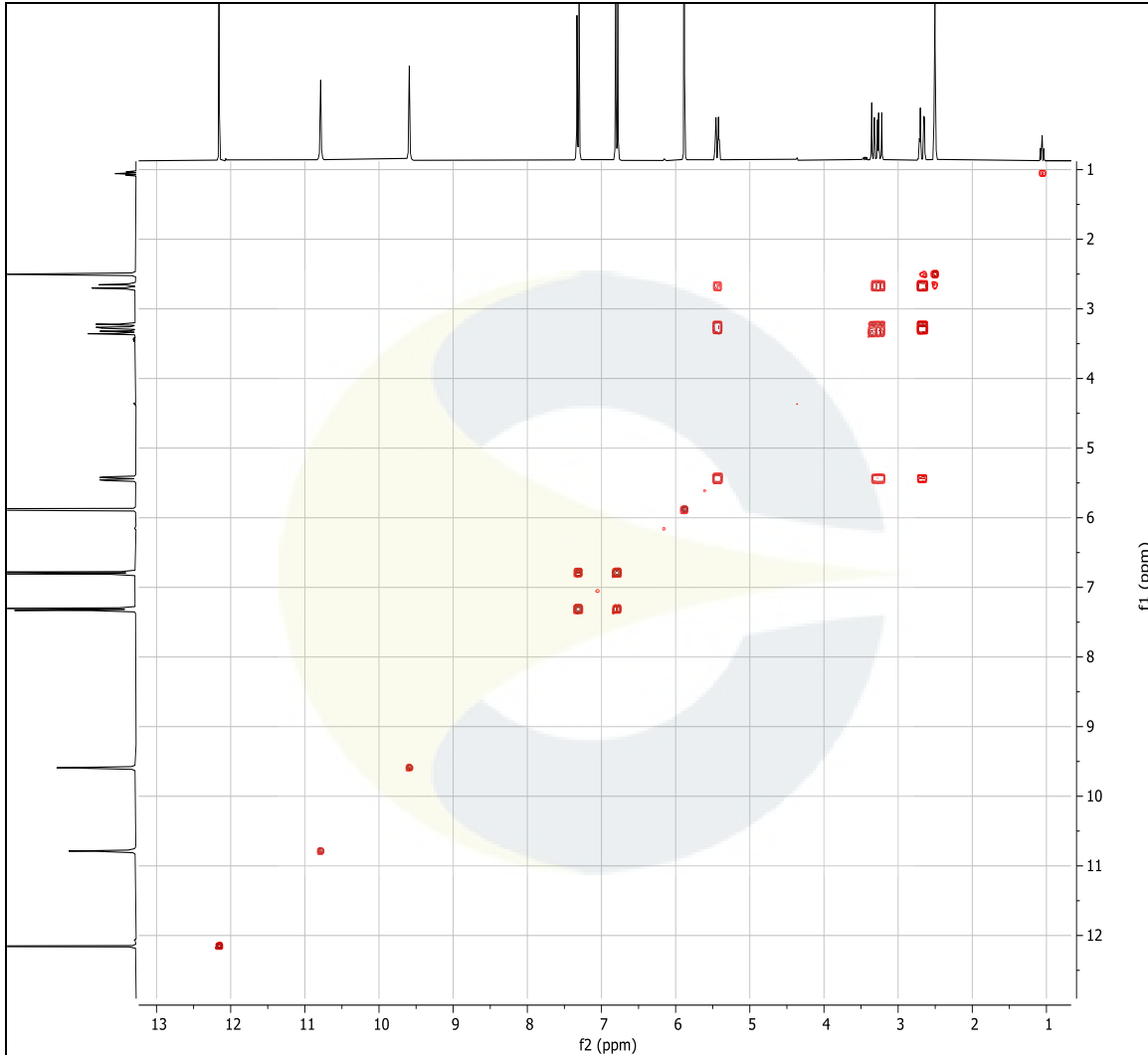
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COSY-NMR SPECTRUM OF NARINGENIN (CDXP-22-00182) IN DMSO-d₆ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/21/2022	New report

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