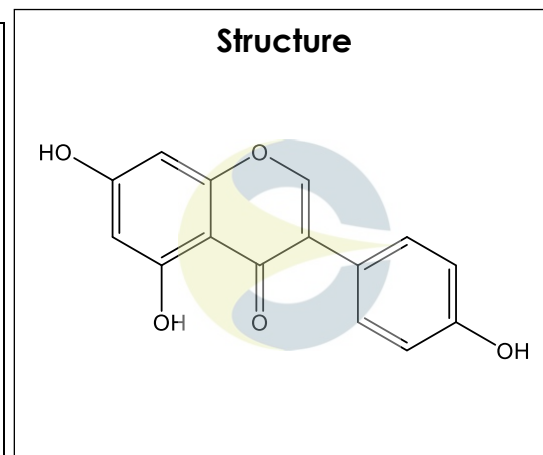


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PRODUCT NAME	Genistein
PART NUMBER	00007082
STANDARD TYPE	Primary (P)
LOT NUMBER	00007082-550
REPORT NUMBER	CDXA-RSS-8897-00
SAMPLE NUMBER	CDXP-20-00193
DATE OF SAMPLE	03/30/2020
DATE OF REPORT	04/30/2020



CHEMICAL NAMES	4',5,7-Trihydroxyisoflavone; Genisteol; Genisterin; Prunetol; Sophoricol
CHEMICAL FORMULA	C ₁₅ H ₁₀ O ₅
MOLECULAR WEIGHT (MW)	270.24
CHEMICAL FAMILY	Flavonoids
CAS NUMBER	[446-72-0]
EC#(EINECS)	207-174-9
RTECS	NR2392000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	98.9%
HPLC	0.700.10.2.METH22	NA	99.3%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Methanol – 0.4%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 98.9% IS BASED ON (100 - 0.4 SOLVENTS - 0.0 WATER) X 99.3% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	03/2025 under the above conditions.

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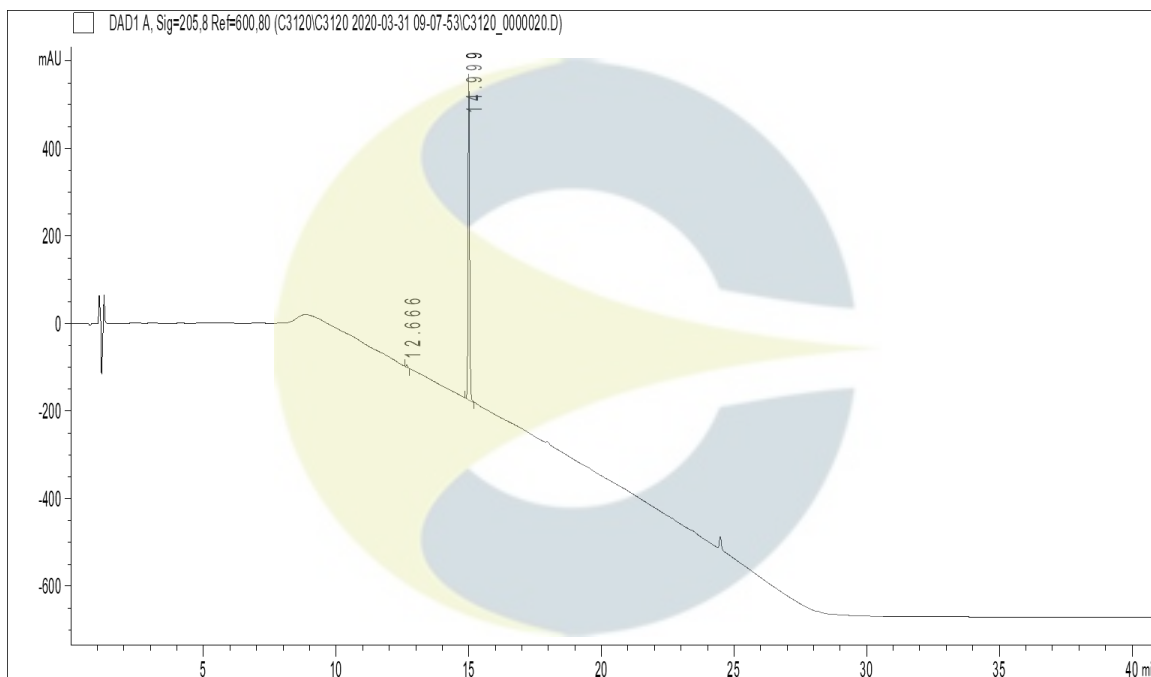
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ANALYTICAL CONDITIONS

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.	1.1 mg/mL in Methanol
DETECTION	205 ± 4 nm

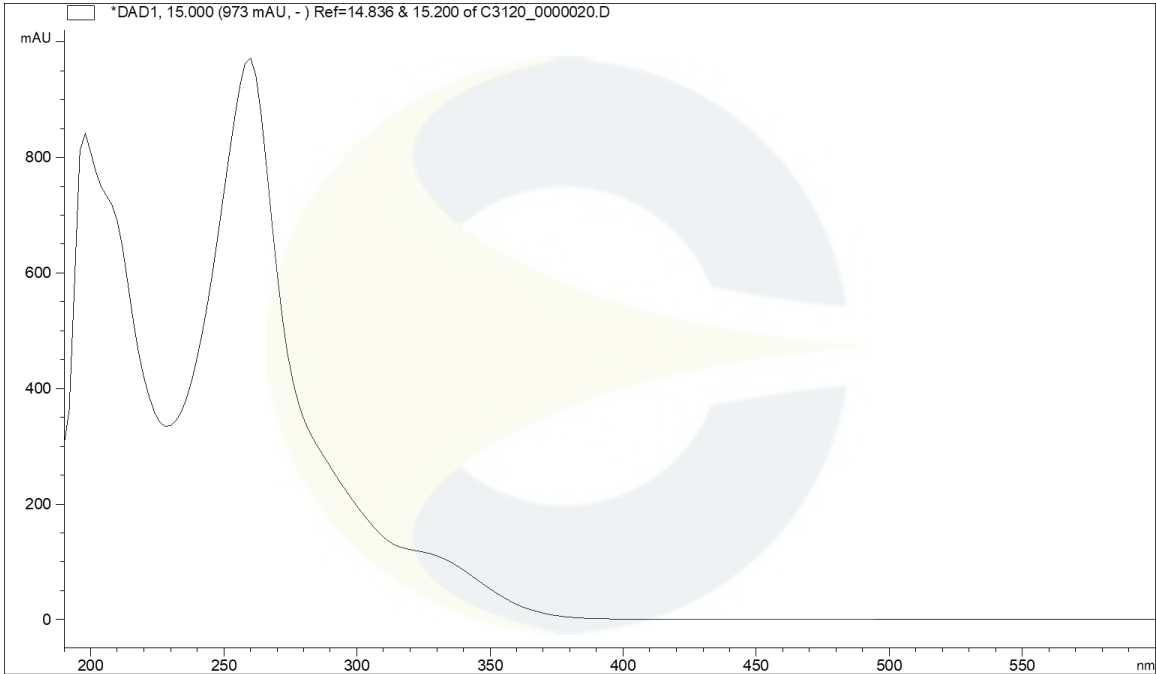
HPLC CHROMATOGRAM OF GENISTEIN (CDXP-20-00193)



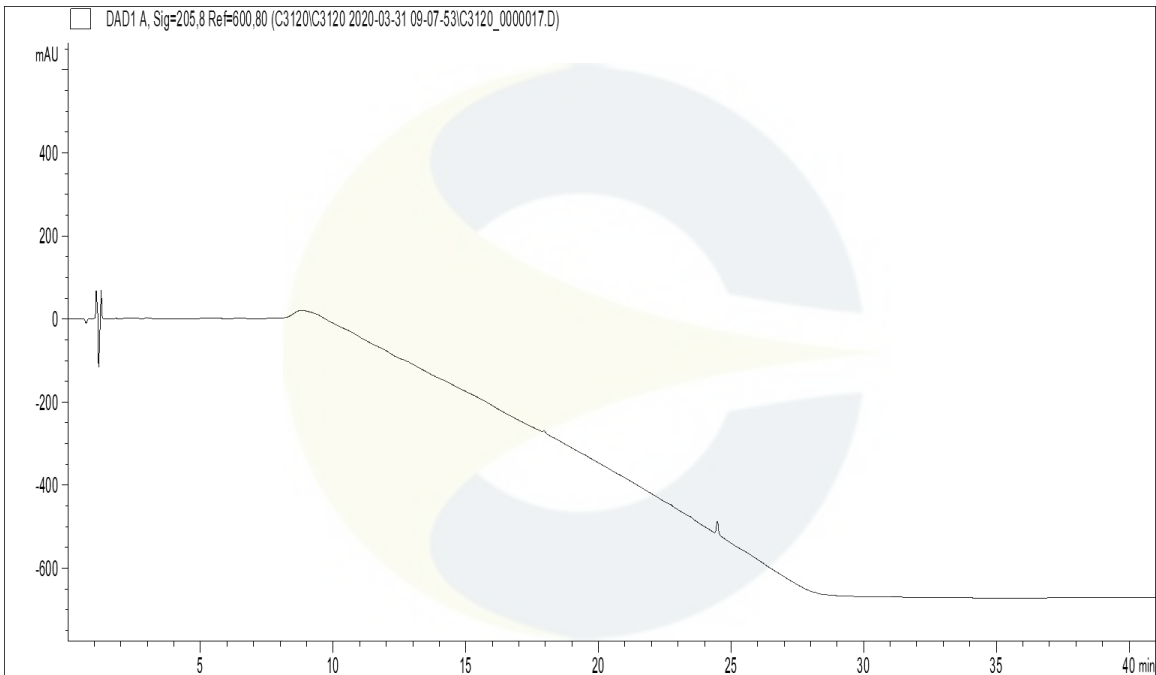
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UV SPECTRUM AT RT 15.0 MINUTES



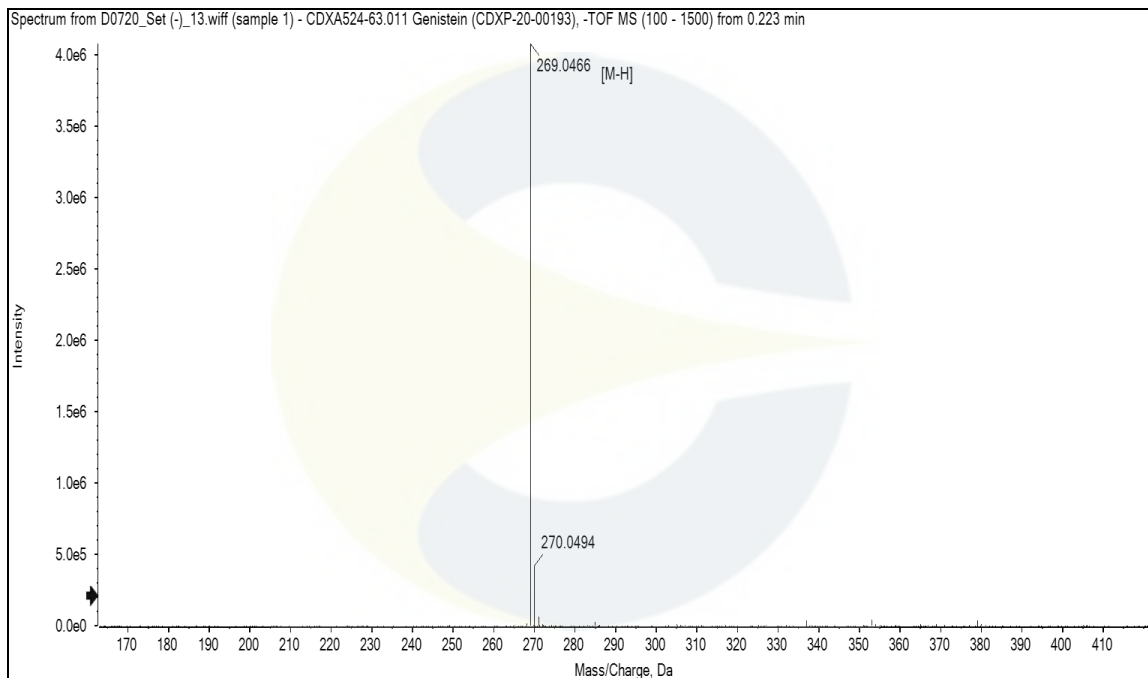
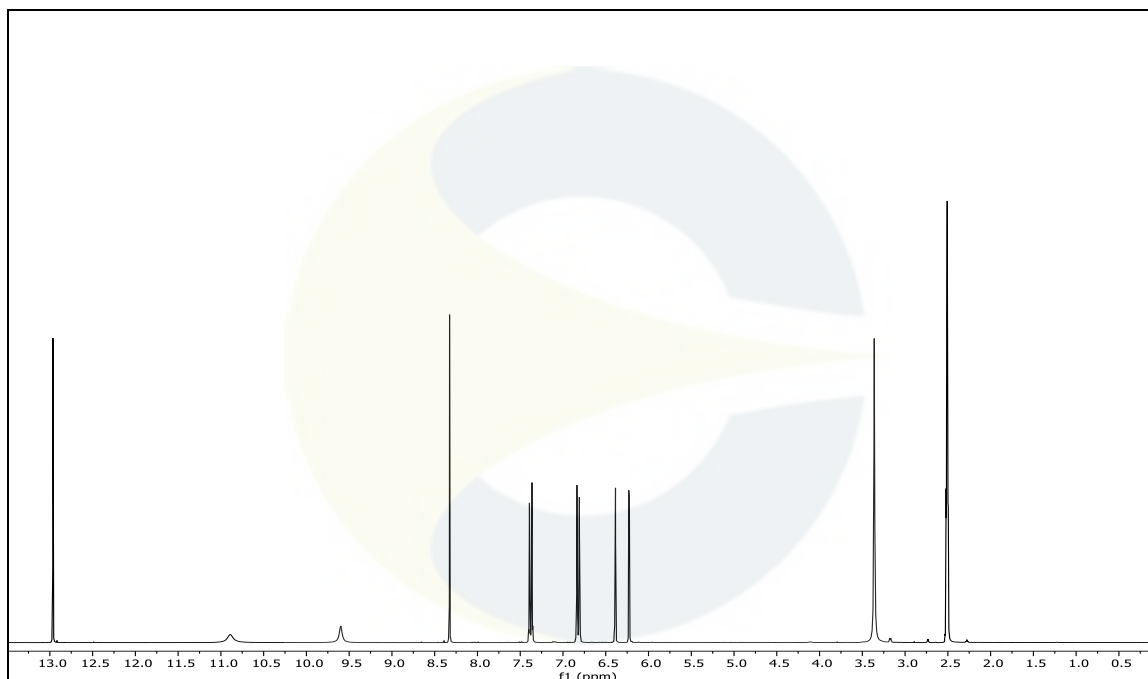
HPLC CHROMATOGRAM OF DILUENT BLANK



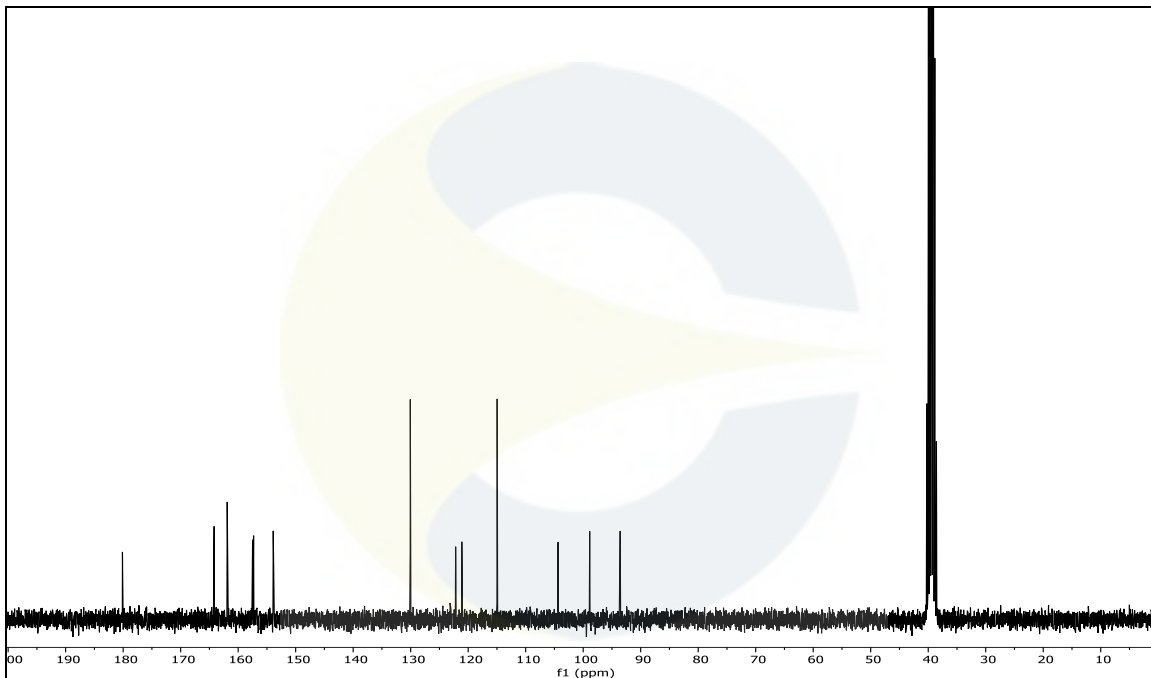
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MASS SPECTRUM OF GENISTEIN (CDXP-20-00193)

¹H-NMR SPECTRUM OF GENISTEIN (CDXP-20-00193) IN DMSO-d₆


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^{13}C -NMR SPECTRUM GENISTEIN (CDXP-20-00193) IN $\text{DMSO}-d_6$ 

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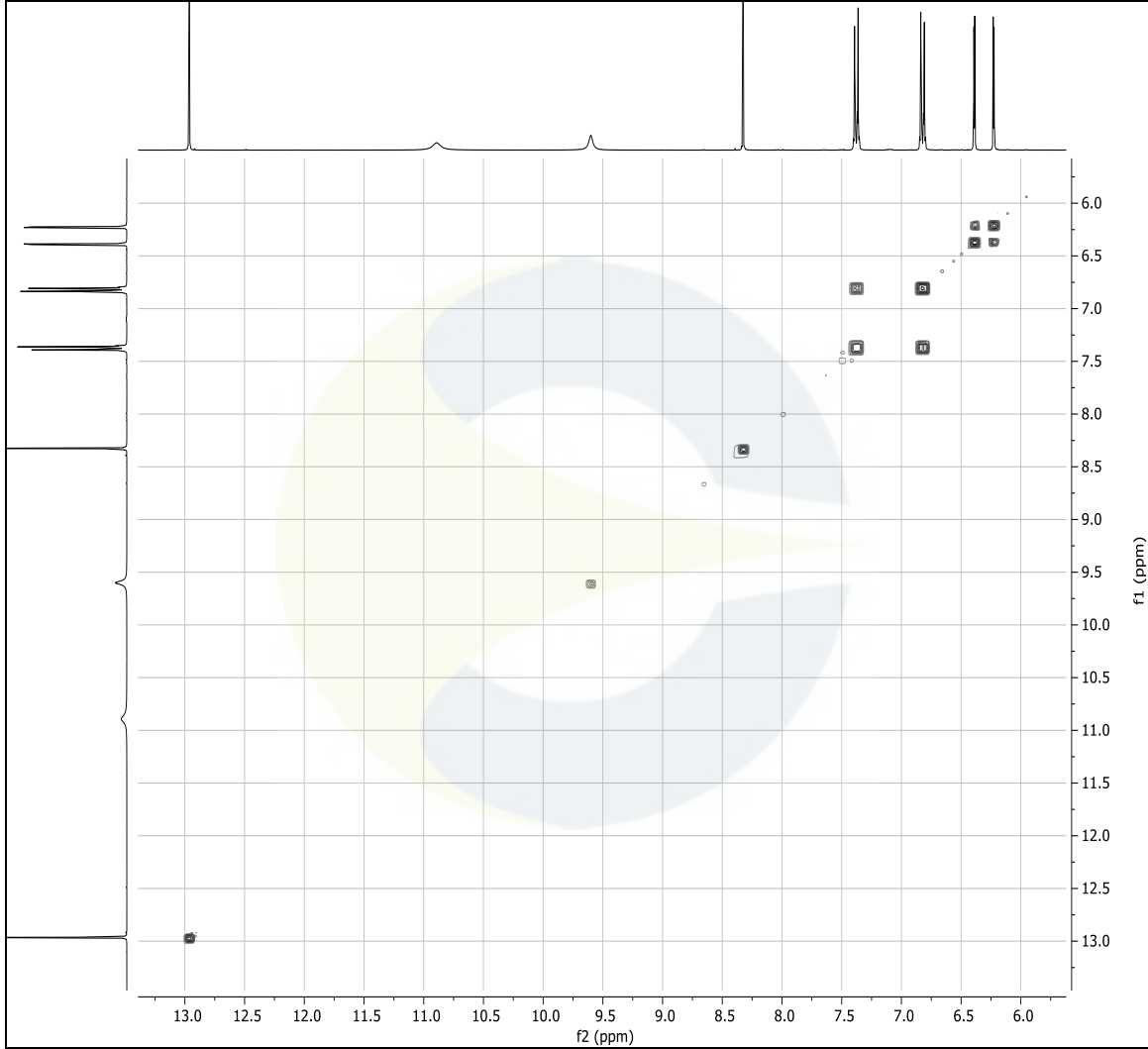
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COSY-NMR SPECTRUM OF GENISTEIN (CDXP-20-00193) IN DMSO-d₆



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	04/30/2020	New report

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