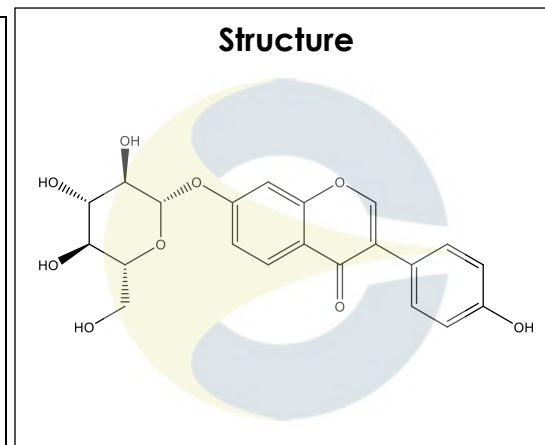


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PRODUCT NAME	Daidzin
PART NUMBER	00004014
STANDARD TYPE	Primary (P) – Compendial Traceable
LOT NUMBER	00004014-00695
REPORT NUMBER	CDXA-RSS-9513-00
SAMPLE NUMBER	CDXP-21-00695
DATE OF SAMPLE	09/20/2021
DATE OF REPORT	10/20/2021



CHEMICAL NAMES	7-(β-D-Glucopyranosyloxy)-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; Daidzein 7-O-glucoside; Daidzoside
CHEMICAL FORMULA	C ₂₁ H ₂₀ O ₉
MOLECULAR WEIGHT (MW)	416.38
CHEMICAL FAMILY	Flavonoids
CAS NUMBER	[552-66-9]
EC#(EINECS)	611-245-3
RTECS	DJ3094000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.7%
HPLC	0.700.10.2.METH22	≥ 90%	99.1%
NMR	9.1-04-2.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	EtOH – 0.5%
Water	0.700.12.37	NA	0.9%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 97.7% IS BASED ON (100 - 0.9 WATER - 0.5 SOLVENTS) X 99.1% HPLC

TRACEABLE SOURCE	LOT NUMBER	SAMPLE ASSAY RESULT AGAINST COMPENDIAL SOURCE
USP	R081FO	97.6%

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	09/2026 under the above conditions.

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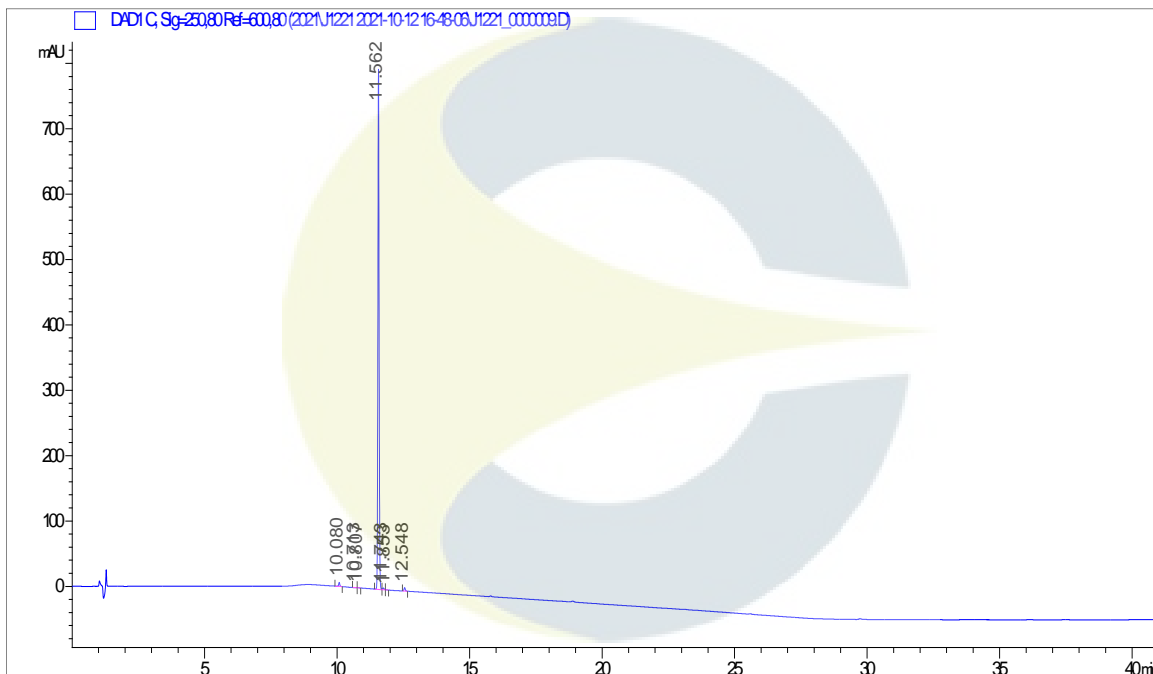
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ANALYTICAL CONDITIONS

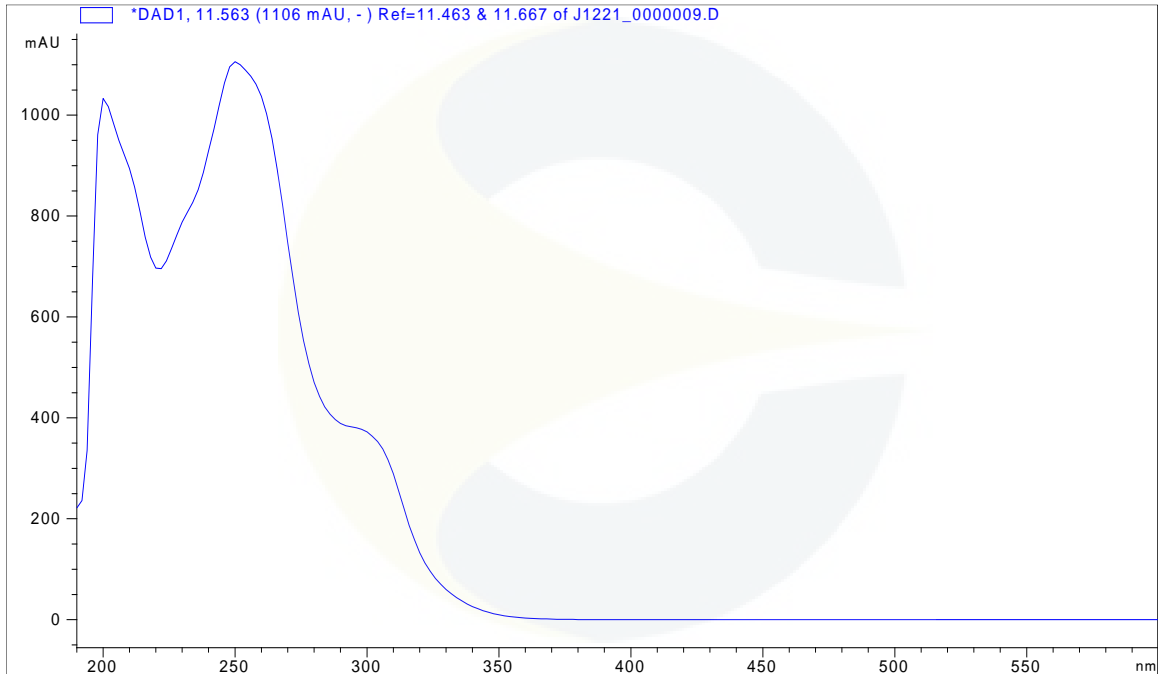
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Milli-Q water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.4 µL
INJECTION CONC.	0.9 mg/mL in Methanol
DETECTION	250 ± 40 nm

HPLC CHROMATOGRAM OF DAIDZIN (CDXP-21-00695)

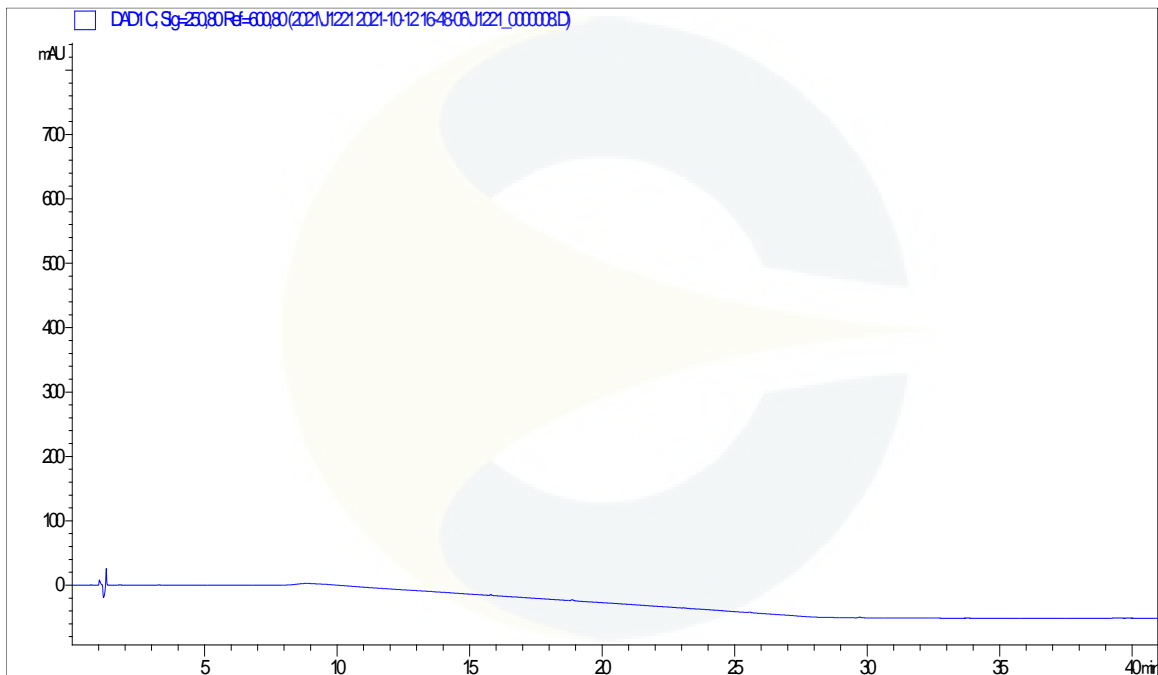


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UV SPECTRUM AT RT = 11.6 MINUTES

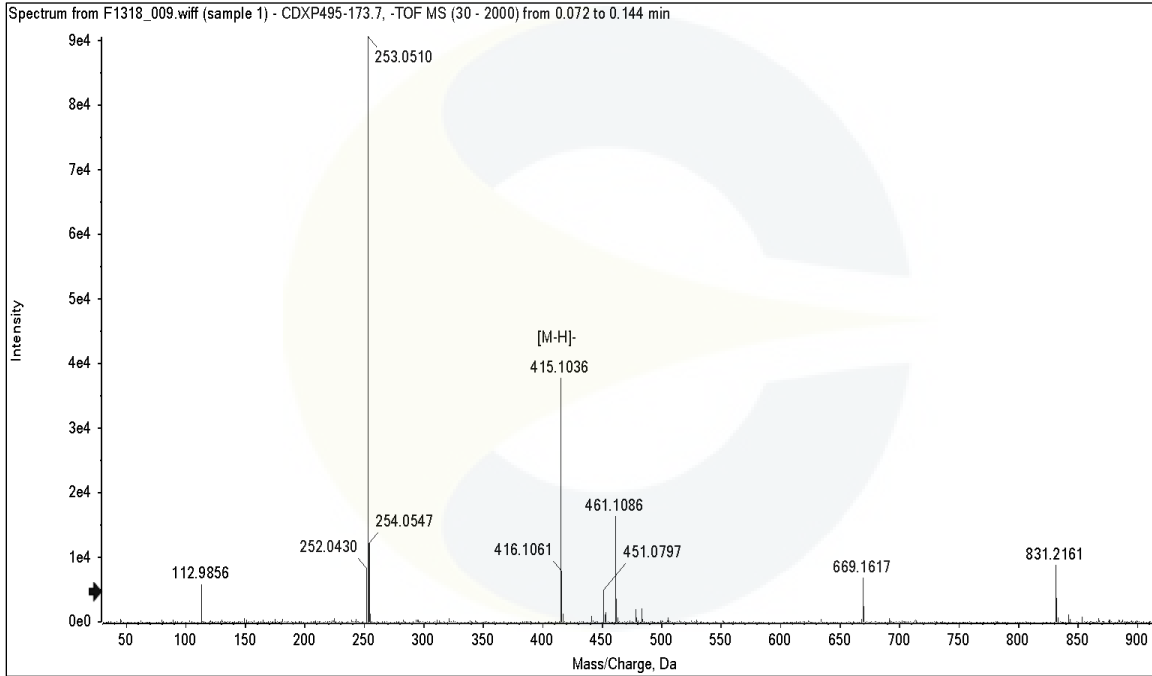


HPLC CHROMATOGRAM OF BLANK



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MASS SPECTRUM OF DAIDZIN (CDXP-21-00695)



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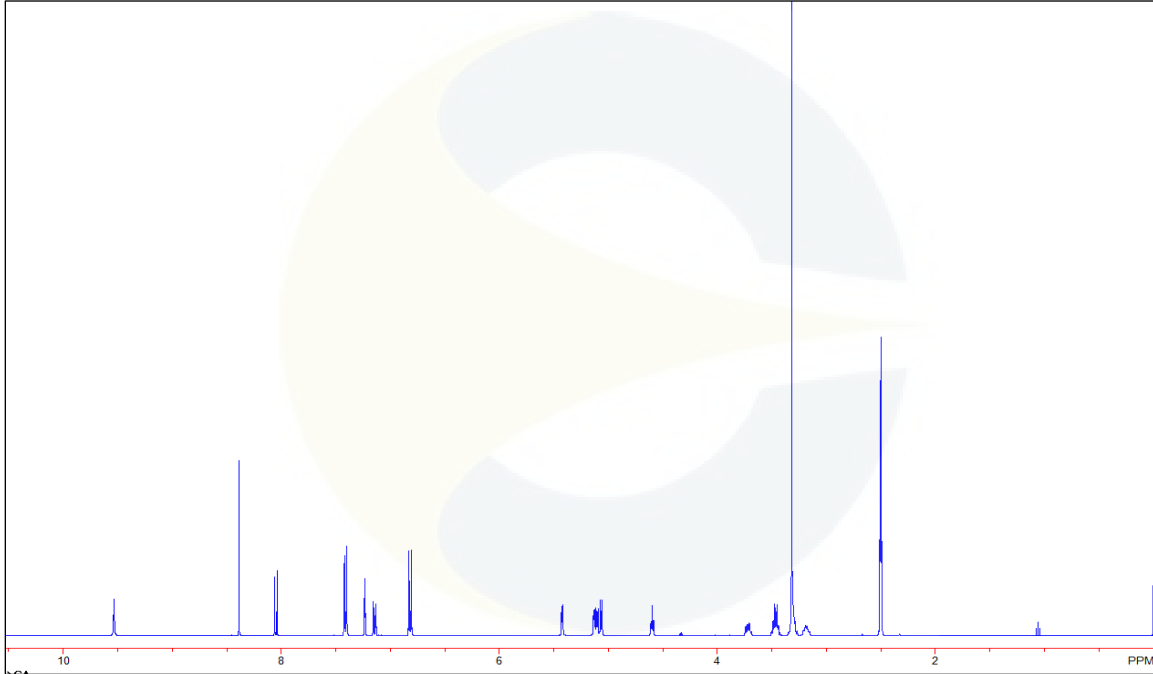
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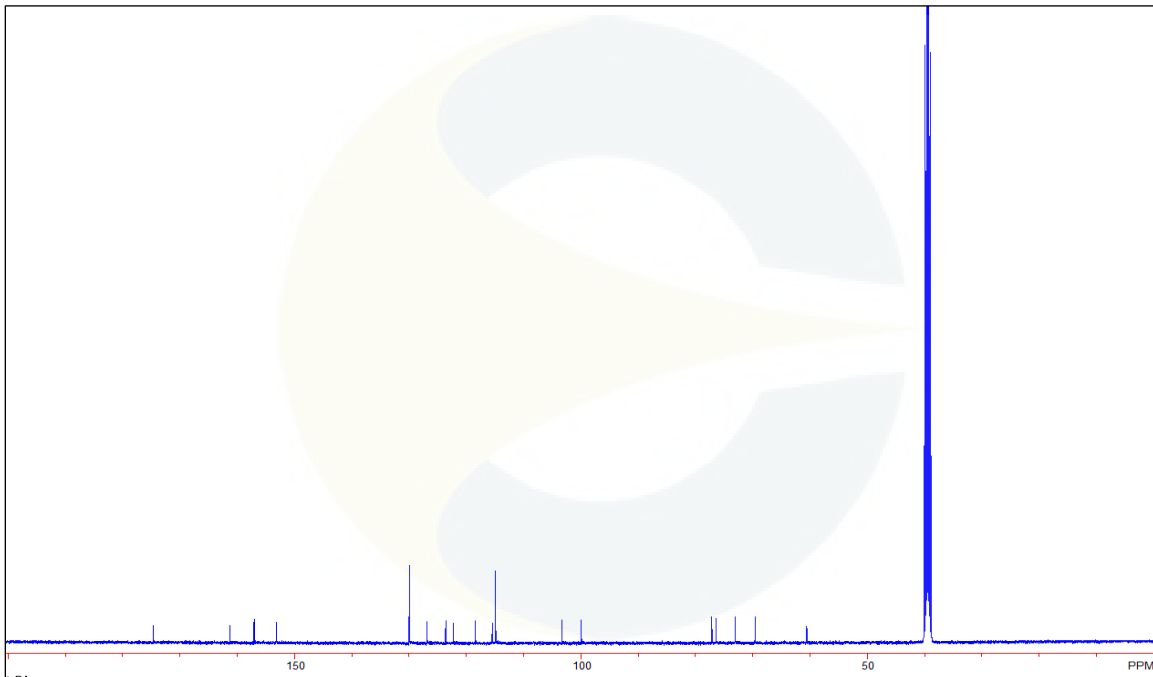
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¹H-NMR SPECTRUM OF DAIDZIN (CDXP-21-00695) IN DMSO-d₆



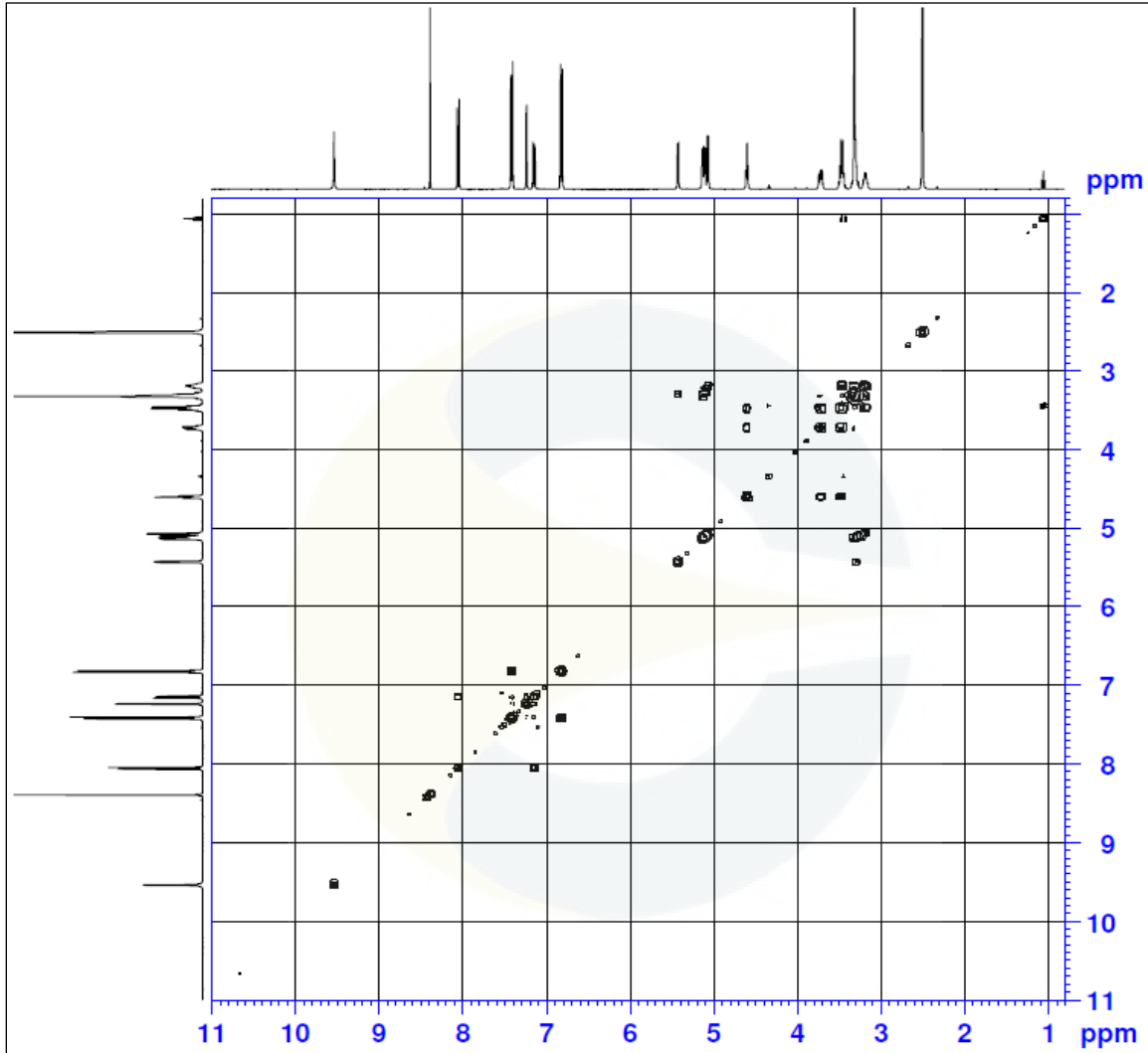
¹³C-NMR SPECTRUM OF DAIDZIN (CDXP-21-00695) IN DMSO-d₆



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COSY-NMR SPECTRUM OF DAIDZIN (CDXP-21-00695) IN DMSO-d₆



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/20/2021	New report

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