





Certificate of Analysis

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PRODUCT NAME Genistein

PART NUMBER 00007082

STANDARD TYPE Primary (P)

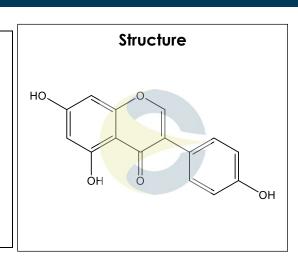
LOT NUMBER 00007082-550

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 C₁₅H₁₀O₅

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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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

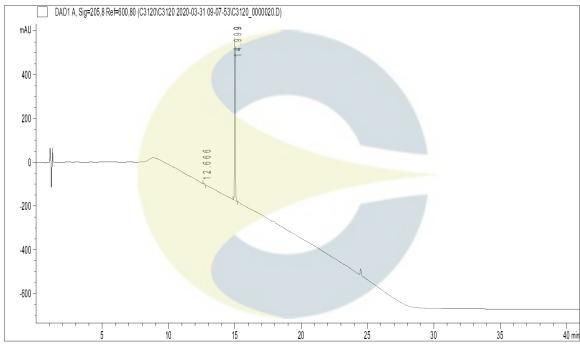
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.2 μL

INJECTION CONC. 1.1 mg/mL in Methanol

DETECTION $205 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF GENISTEIN (CDXP-20-00193)





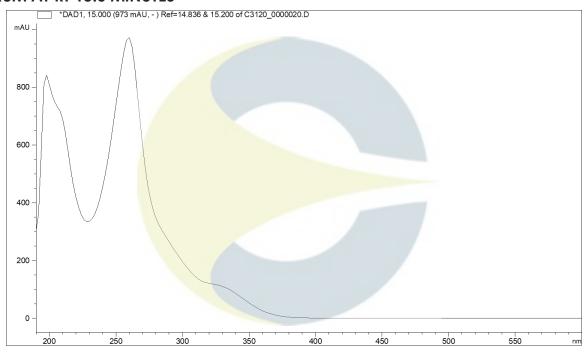




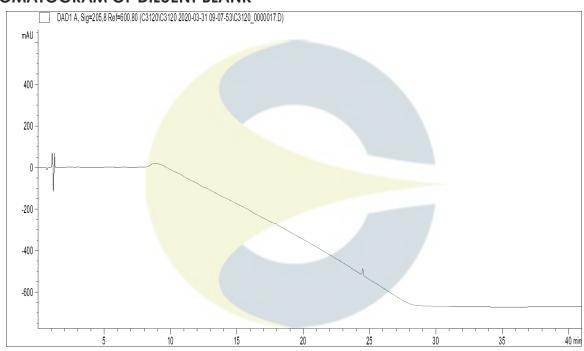
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UV SPECTRUM AT RT 15.0 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





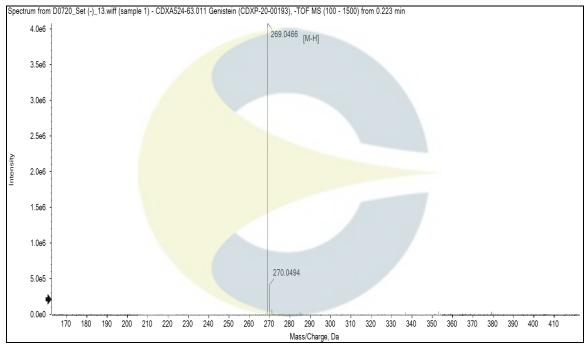




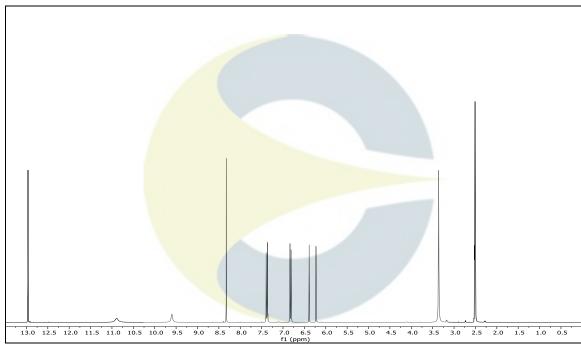
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MASS SPECTRUM OF GENISTEIN (CDXP-20-00193)



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



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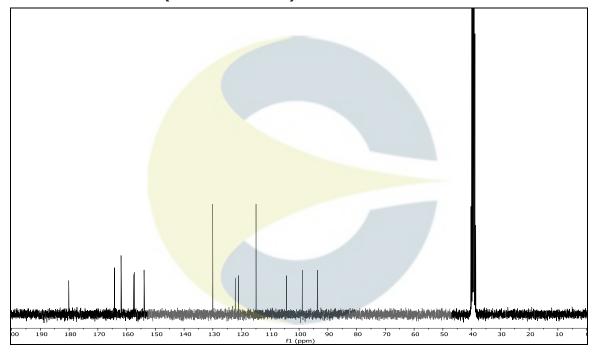




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13C-NMR SPECTRUM GENISTEIN (CDXP-20-00193) IN DMSO-d6





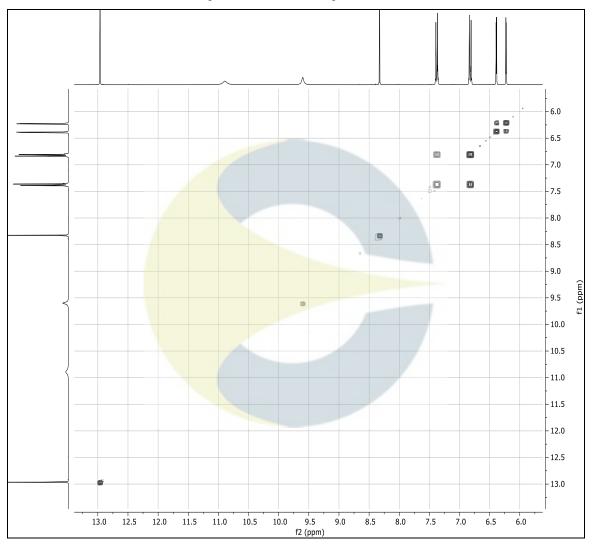




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COSY-NMR SPECTRUM OF GENISTEIN (CDXP-20-00193) IN DMSO-d6



REVISION HISTORY

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