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SPECIMEN

PRODUCT NAME Genistin

PART NUMBER 00007095

STANDARD TYPE Primary (P)

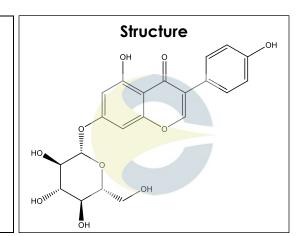
LOT NUMBER 00007095-303

REPORT NUMBER CDXA-RSS-8912-00

SAMPLE NUMBER CDXP-20-00221

DATE OF SAMPLE 04/07/2020

DATE OF REPORT 05/07/2020



7-(\(\beta\)-Glucopyranosyloxy)-5-hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-CHEMICAL NAMES

one; Genistein 7-O-β-D-glucopyranoside; Genistine; Genistoside

CHEMICAL FORMULA C21H20O10

MOLECULAR WEIGHT (MW) 432.38

Isoflavones **CHEMICAL FAMILY**

CAS NUMBER [529-59-9]

EC#(EINECS) 610-921-5

RTECS DJ3093000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	96.0%
HPLC	0.700.10.2.METH22	NA	97.4%
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 – 0.1% N,N-Dimethylformamide – 0.1%
Water	0.700.12.37	NA	1.2%
Appearance	NA	NA	Off white powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 96.0% IS BASED ON (100 - 0.2 SOLVENTS - 1.2 WATER) X 97.4% HPLC

STORAGE CONDITIONS

STORAGE -20 °C in a dry place.

EXPIRATION DATE 04/2025 under the above conditions.

Matthew Thibault Digitally signed by **Matthew Thibault** Quality Assurance Product

Safety Specialist I Date: 2020.05.07 Designee of QA 09:50:11 -06'00' Management







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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

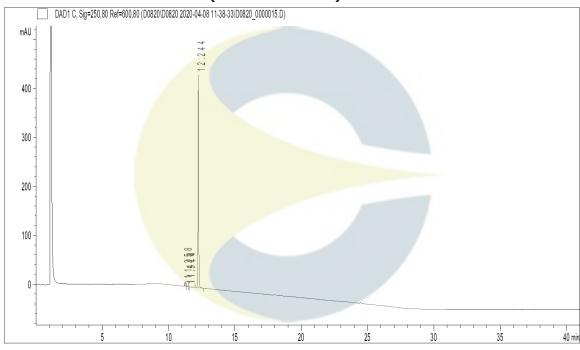
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.2 μL

INJECTION CONC. 1.2 mg/mL in (1:1) Methanol: Dimethyl Sulfoxide

DETECTION $250 \pm 40 \text{ nm}$

HPLC CHROMATOGRAM OF GENISTIN (CDXP-20-00221)



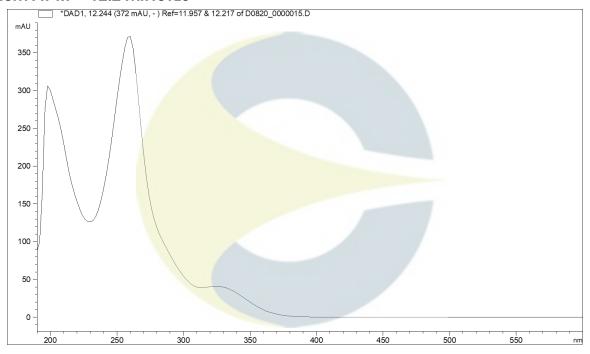




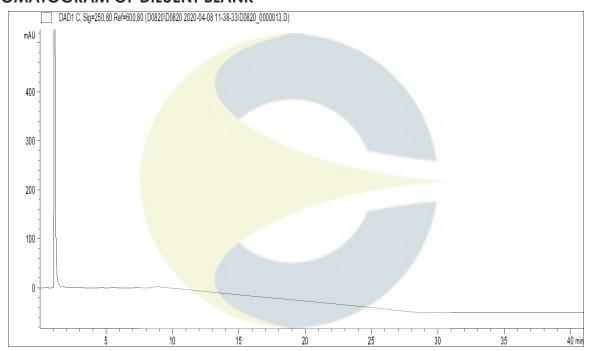


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UV SPECTRUM AT RT = 12.2 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



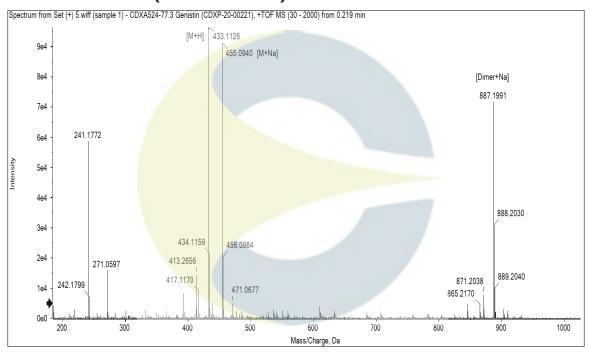




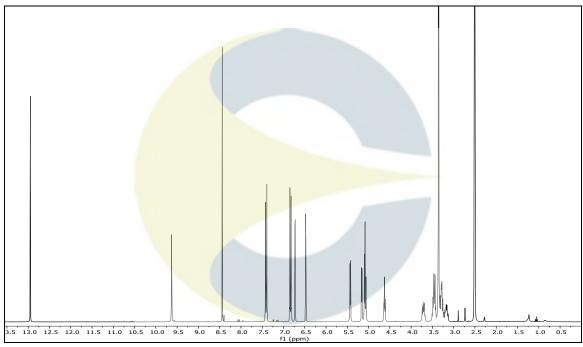


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MASS SPECTRUM OF GENISTIN (CDXP-20-00221)



¹H-NMR SPECTRUM OF GENISTIN (CDXP-20-00221) IN CDCl₃



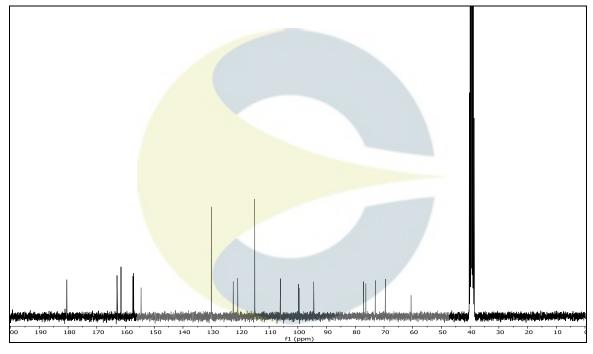






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¹³C-NMR SPECTRUM GENISTIN (CDXP-20-00221) IN CDCl₃



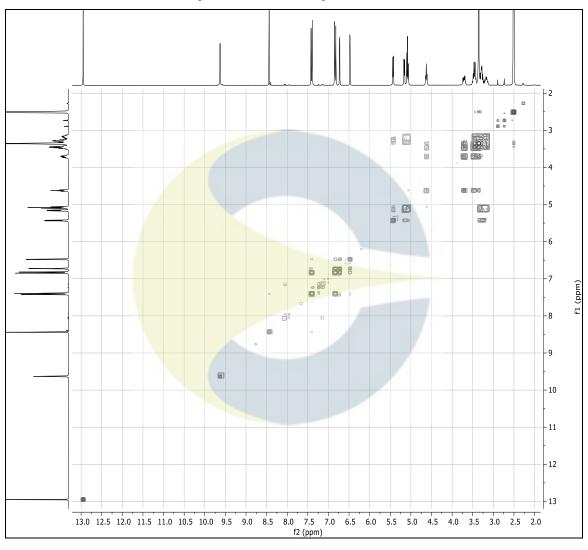






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COSY-NMR SPECTRUM OF GENISTIN (CDXP-20-00221) IN CDCI₃



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	05/07/2020	New report