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PRODUCT NAME Hyperoside

PART NUMBER 00008916

STANDARD TYPE Primary (P)

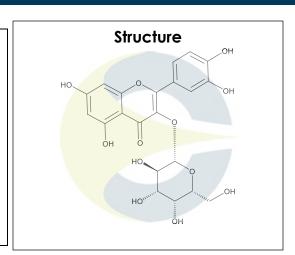
LOT NUMBER 00008916-316

REPORT NUMBER CDXA-RSS-9085-00

SAMPLE NUMBER CDXP-20-00489

DATE OF SAMPLE 07/01/2020

DATE OF REPORT 08/05/2020



CHEMICAL NAMES 2-(3,4-dihydroxyphenyl)-3-(β-D-galactopyranosyloxy)-5,7-dihydroxy-4H-1-

Benzopyran-4-one; Hyperin

CHEMICAL FORMULA C₂₁H₂₀O₁₂

MOLECULAR WEIGHT (MW) 464.38

CHEMICAL FAMILY Flavonoids

CAS NUMBER [482-36-0]

EC#(EINECS) 207-580-6

RTECS DJ3009200

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	95.8%
HPLC	0.700.10.2.METH22	NA	99.9%
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 – 0.2%
Water	0.700.12.37	NA	3.9%
Appearance	NA	NA	Light yellow powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 95.8% IS BASED ON (100 - 0.2 SOLVENTS - 3.9 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 07/2025 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

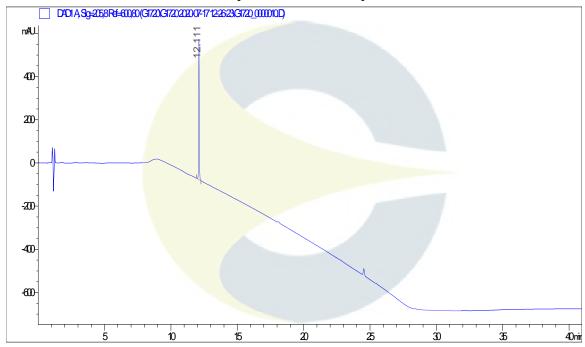
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.2 μL

INJECTION CONC. 1.0 mg/mL in Methanol

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

HPLC CHROMATOGRAM OF HYPEROSIDE (CDXP-20-00489)





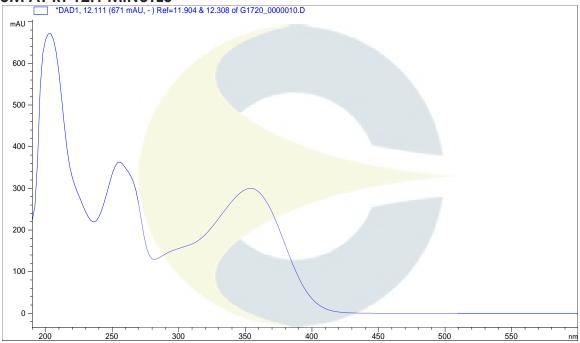




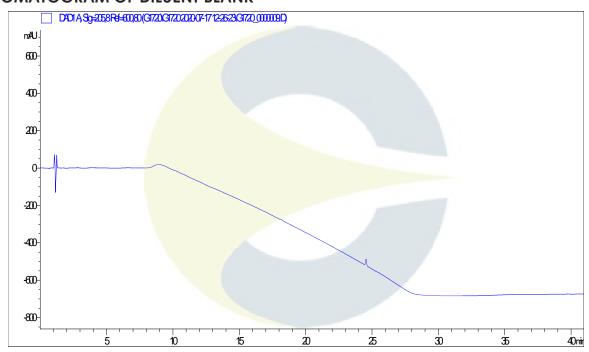
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UV SPECTRUM AT RT 12.1 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





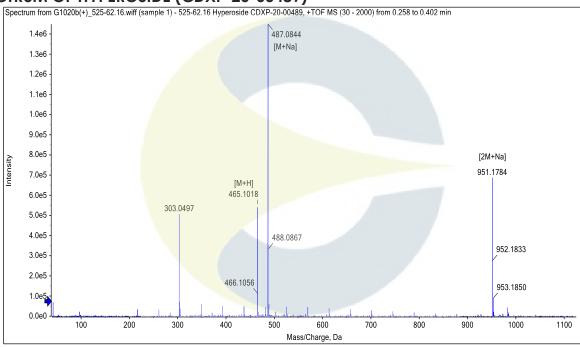




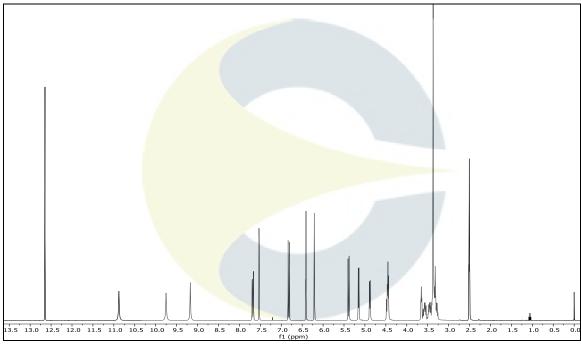
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MASS SPECTRUM OF HYPEROSIDE (CDXP-20-00489)



¹H-NMR SPECTRUM OF HYPEROSIDE (CDXP-20-00489) IN DMSO-d₆ + TMS





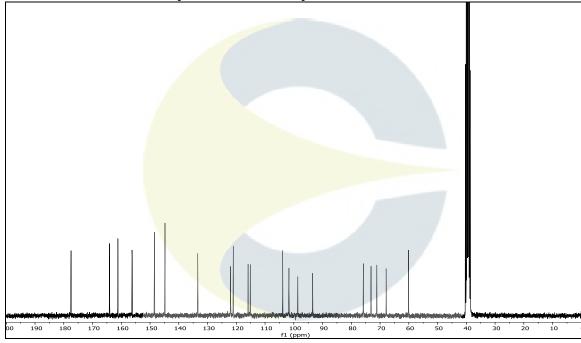




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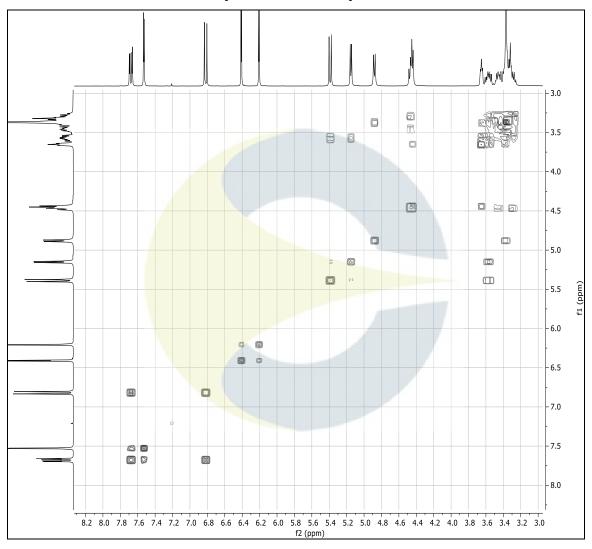




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COSY-NMR SPECTRUM OF HYPEROSIDE (CDXP-20-00489) IN DMSO-d6 + TMS



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes

00 08/05/2020 New report