





Certificate of Analysis

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PRODUCT NAME Vitexin-2"-O-Rhamnoside

PART NUMBER 00022900

STANDARD TYPE Primary (P)

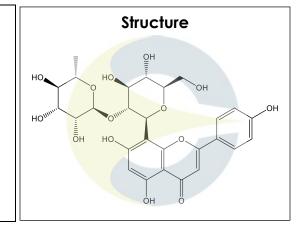
LOT NUMBER 00022900-000

REPORT NUMBER CDXA-RSS-8961-00

SAMPLE NUMBER CDXP-20-00308

DATE OF SAMPLE 04/30/2020

DATE OF REPORT 06/09/2020



CHEMICAL NAMES 4H-1-Benzopyran-4-one, 8-[2-O-(6-deoxy-a-L-mannopyranosyl)-β-D-

glucopyranosyl]-5,7-dihydroxy-2-(4-hydroxyphenyl)-; 2"-Rhamnosylvitexin;

Apigenin 8-C-neohesperidoside

CHEMICAL FORMULA C₂₇H₃₀O₁₄

MOLECULAR WEIGHT (MW) 578.52

CHEMICAL FAMILY Flavanoids

CAS NUMBER [64820-99-1]

EC#(EINECS) 613-695-6

RTECS NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	92.6%
HPLC	0.700.10.2.METH22	NA	99.1%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>*, 0.700.10.2METH142 (Acetic)	NA	Acetic acid – 0.2%; Methanol – 2.7%; Ethyl Acetate – 0.1%
Water	0.700.12.37	NA	3.7%
Appearance	NA	NA	Light-yellow powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 92.6% IS BASED ON (100 - 2.9 SOLVENTS - 3.7 WATER) X 99.1% HPLC







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STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 04/2025 under the above conditions.

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

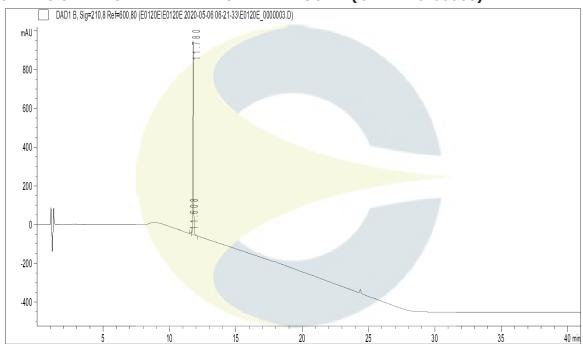
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.5 μL

INJECTION CONC. 1.0 mg/mL in Methanol

DETECTION $210 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF VITEXIN-2"-O-RHAMNOSIDE (CDXP-20-00308)





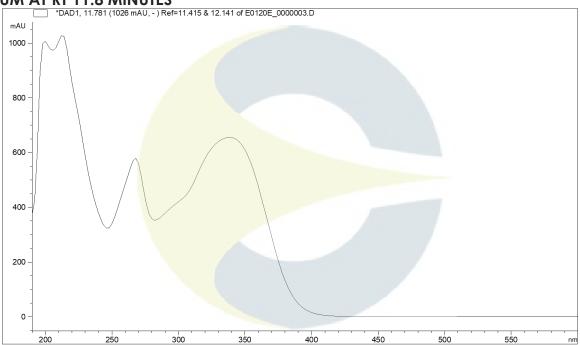




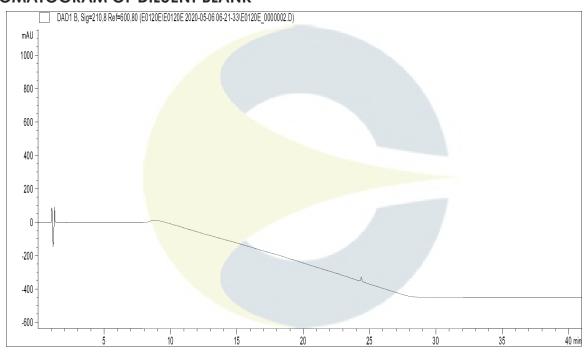
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UV SPECTRUM AT RT 11.8 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





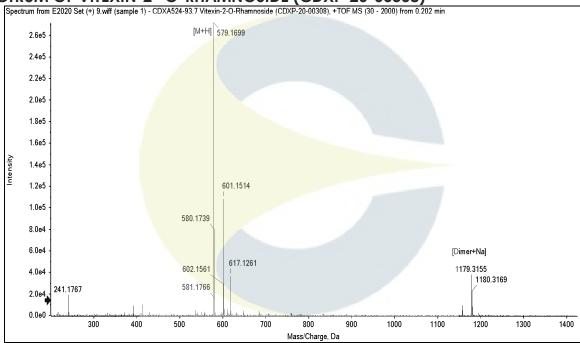




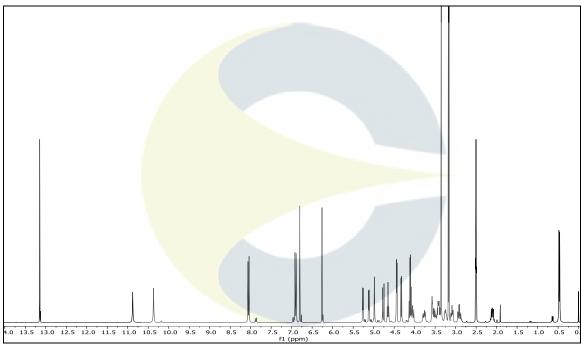
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MASS SPECTRUM OF VITEXIN-2"-O-RHAMNOSIDE (CDXP-20-00308)



¹H-NMR SPECTRUM OF VITEXIN-2"-O-RHAMNOSIDE (CDXP-20-00308) IN DMSO-d₆ + TMS





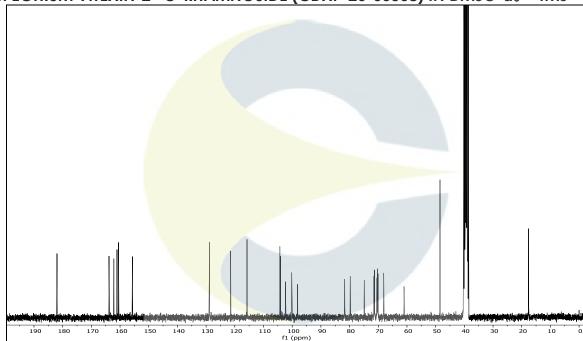




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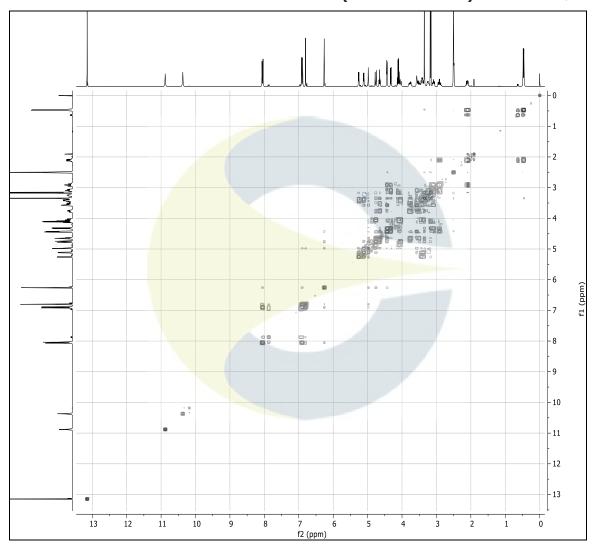




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COSY-NMR SPECTRUM OF VITEXIN-2"-O-RHAMNOSIDE (CDXP-20-00308) IN DMSO-d6 + TMS



REVISION HISTORY

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

00 06/09/2020 New report