





Certificate of Analysis

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PRODUCT NAME Vitexin

PART NUMBER 00022850

STANDARD TYPE Primary (P)

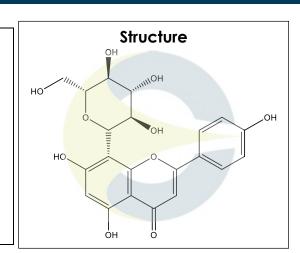
LOT NUMBER 00022850-443

REPORT NUMBER CDXA-RSS-9160-00

SAMPLE NUMBER CDXP-20-00675

DATE OF SAMPLE 09/14/2020

DATE OF REPORT 10/12/2020



CHEMICAL NAMES 8-β-D-Glucopyranosyl-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-

one; Orientoside; Vitexina; Vitexine

CHEMICAL FORMULA C₂₁H₂₀O₁₀

MOLECULAR WEIGHT (MW) 432.38

CHEMICAL FAMILY Flavonoids

CAS NUMBER [3681-93-4]

EC#(EINECS) 222-963-8

RTECS DJ2984000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.5%
HPLC	0.700.10.2.METH22	≥ 90%	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	Methanol – 4490 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Yellow powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.5% IS BASED ON (100 - 0.4 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 09/2025 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

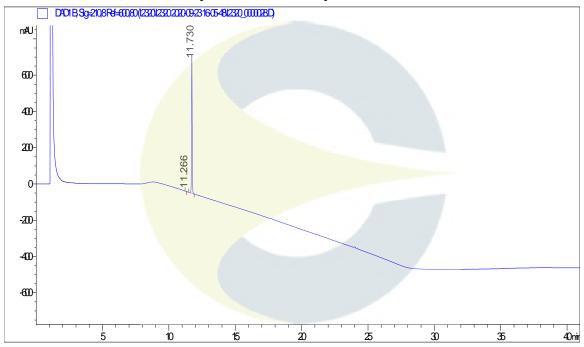
FLOW RATE 0.4 mL/minute

INJECTION VOL. $0.2 \mu L$

INJECTION CONC. 1.1 mg/mL in Dimethyl sulfoxide

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

HPLC CHROMATOGRAM OF VITEXIN (CDXP-20-00675)



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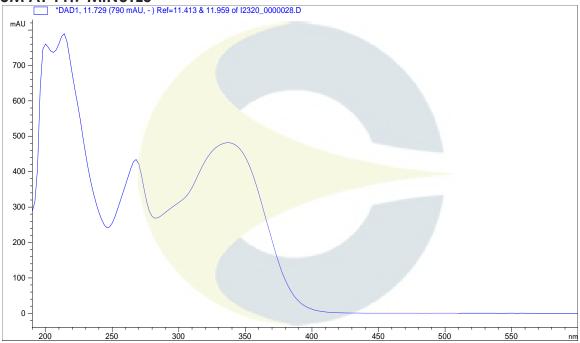




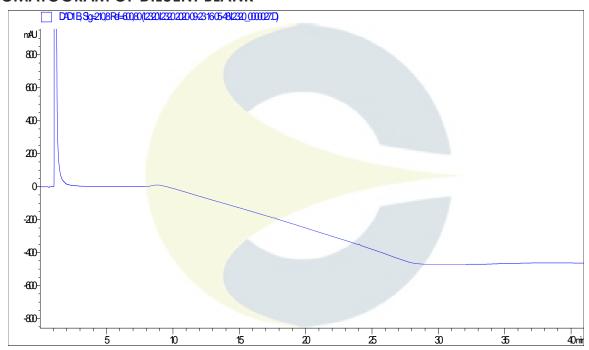
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UV SPECTRUM AT 11.7 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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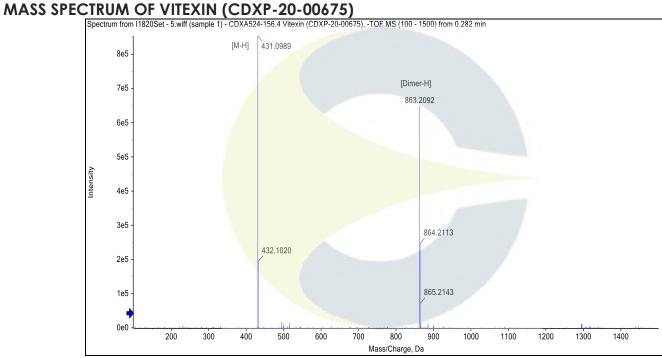




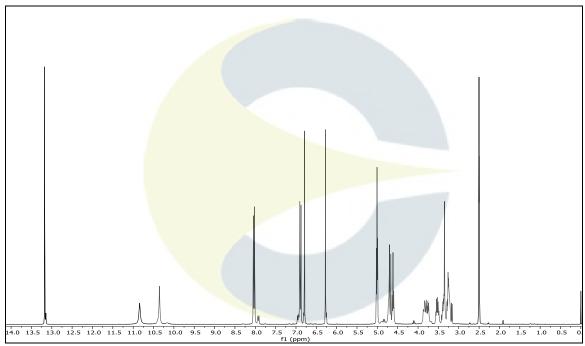


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¹H-NMR SPECTRUM OF VITEXIN (CDXP-20-00675) IN DMSO-d₆ + TMS



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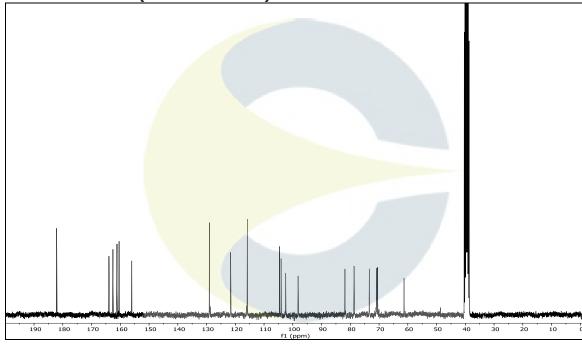




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¹³C-NMR SPECTRUM VITEXIN (CDXP-20-00675) IN DMSO-d₆ + TMS



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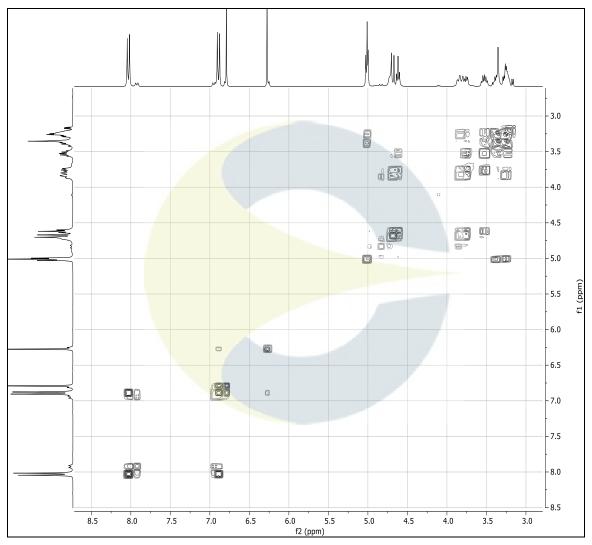




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COSY-NMR SPECTRUM OF VITEXIN (CDXP-20-00675) IN DMSO-d6 + TMS



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	Document/Changes
00	10/12/2020	New report

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