





Certificate of Analysis

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PRODUCT NAME Quercitrin

PART NUMBER 00017171

STANDARD TYPE Primary (P)

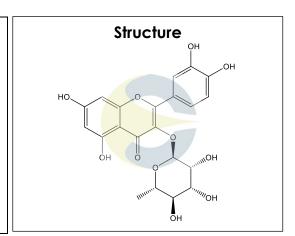
LOT NUMBER 00017171-116

REPORT NUMBER CDXA-RSS-8634-00

SAMPLE NUMBER CDXP-19-00477

DATE OF SAMPLE 08/14/2019

DATE OF REPORT 09/19/2019



CHEMICAL NAMES 3-O- α -L-Rhamnopyranosylquercetin; Quercetin-3-rhamnoside; Quercitroside

CHEMICAL FORMULA C₂₁H₂₀O₁₁

MOLECULAR WEIGHT (MW) 448.38

CHEMICAL FAMILY Flavonoids

CAS NUMBER [522-12-3]

EC#(EINECS) 208-322-5

RTECS UZ5950000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	NA	87.6%	
HPLC	99.1-04-1.0-000684	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	MeOH - 6.7%;	
			EtOAc - 0.2%	
Water	0.700.12.37	NA	4.9%	
Appearance	NA	NA	Yellow powder	

ADJUSTED PURITY: 87.6% IS BASED ON (100 - 6.9 SOLVENTS - 4.9 WATER) X 99.3% HPLC

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 08/2024 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.

COLUMN TEMP. 60 °C

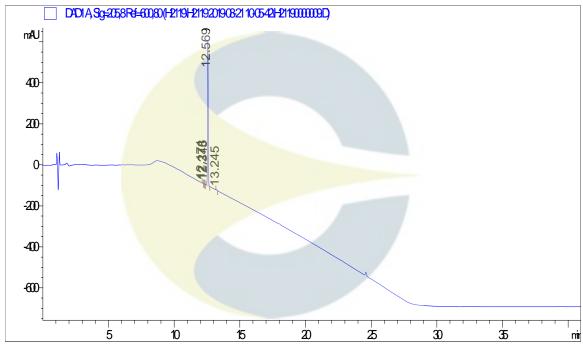
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.2 μL

INJECTION CONC. 1.1 mg/mL in Methanol

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

HPLC CHROMATOGRAM OF QUERCITRIN (CDXP-19-00477)





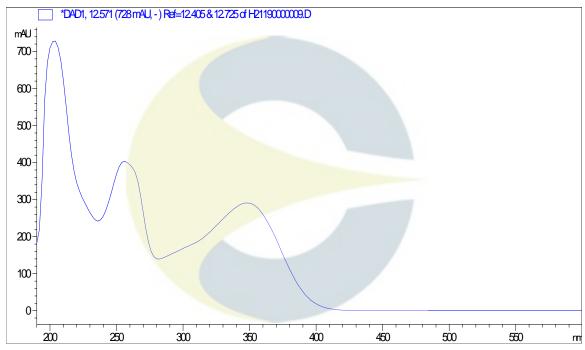




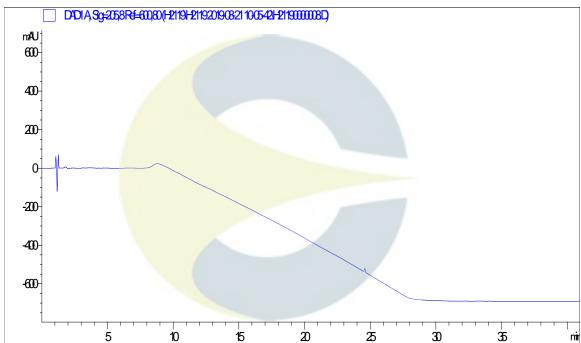
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UV SPECTRUM AT RT = 12.6 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





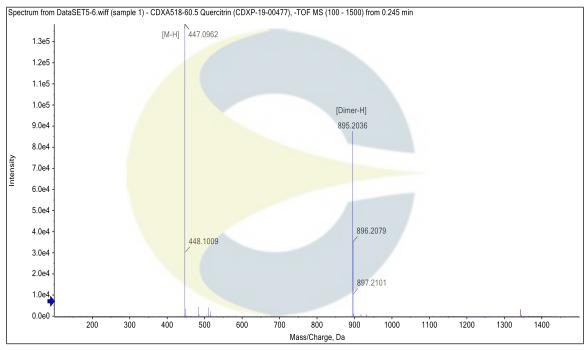




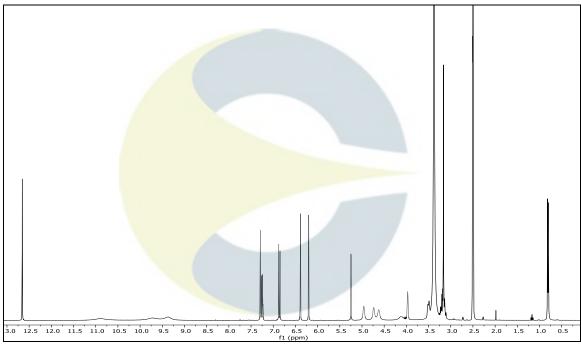
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MASS SPECTRUM OF QUERCITRIN (CDXP-19-00477)



¹H-NMR SPECTRUM OF QUERCITRIN (CDXP-19-00477) IN DMSO-d₆





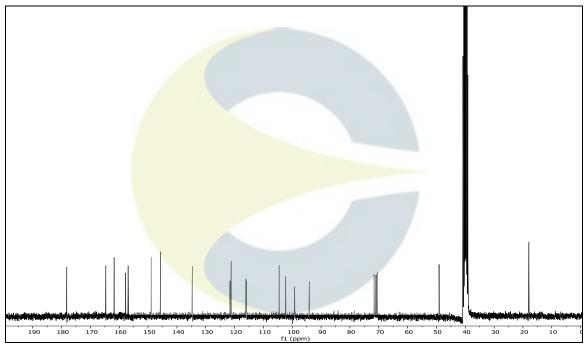




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13C-NMR SPECTRUM QUERCITRIN (CDXP-19-00477) IN DMSO-d6





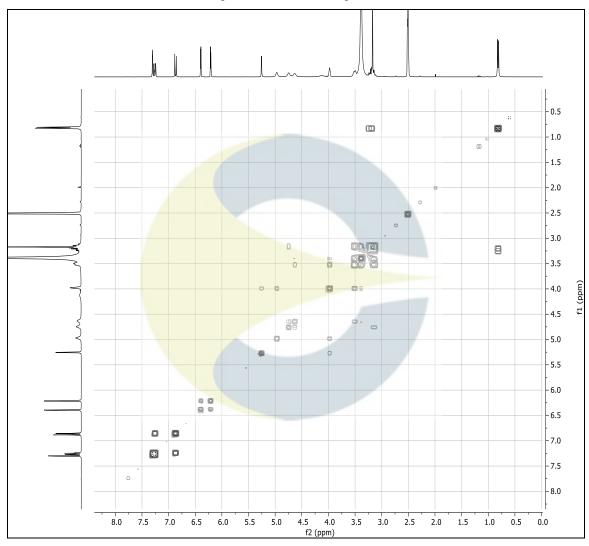




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COSY-NMR SPECTRUM OF QUERCITRIN (CDXP-19-00477) IN DMSO-d6



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/19/2019	New report