





Certificate of Analysis

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PRODUCT NAME Rosmarinic acid

PART NUMBER 00018370

STANDARD TYPE Primary (P)

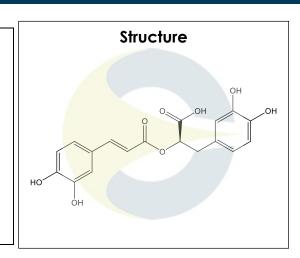
LOT NUMBER 00018370-987

REPORT NUMBER CDXA-RSS-9578-00

SAMPLE NUMBER CDXP-21-00829

DATE OF SAMPLE 11/10/2021

DATE OF REPORT 12/17/2021



CHEMICAL NAMES (αR) - α -[[(2E)-3-(3,4-Dihydroxyphenyl)-1-oxo-2-propen-1-yl]oxy]-3,4-dihydroxy-

benzenepropanoic acid; Labiatenic acid; Rosemaric acid; Rosemary acid;

trans-Rosmarinic acid

CHEMICAL FORMULA C₁₈H₁₆O₈

MOLECULAR WEIGHT (MW) 360.31

CHEMICAL FAMILY Phenolic acids

CAS NUMBER [20283-92-5]

EC#(EINECS) 606-487-1

RTECS GD8990000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.6%
HPLC	0.700.10.2.METH22	≥ 90%	97.6%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Off-white powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 97.6% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 97.6% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 11/2026 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

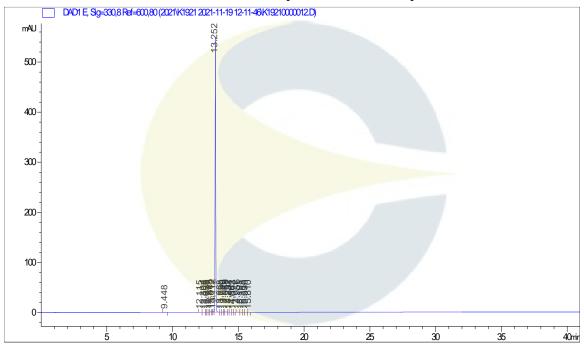
FLOW RATE 0.4 mL/minute

INJECTION VOL. $0.2 \mu L$

INJECTION CONC. 1.0 mg/mL in Methanol

DETECTION $330 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF ROSMARINIC ACID (CDXP-21-00829)





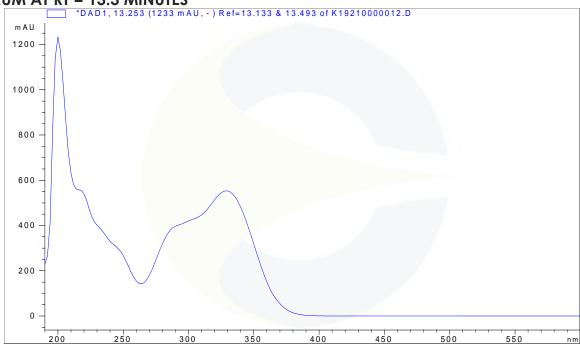




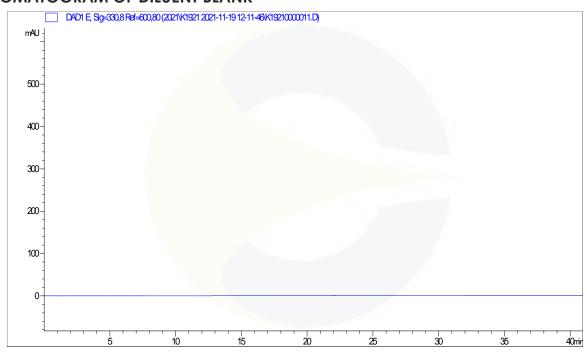
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UV SPECTRUM AT RT = 13.3 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



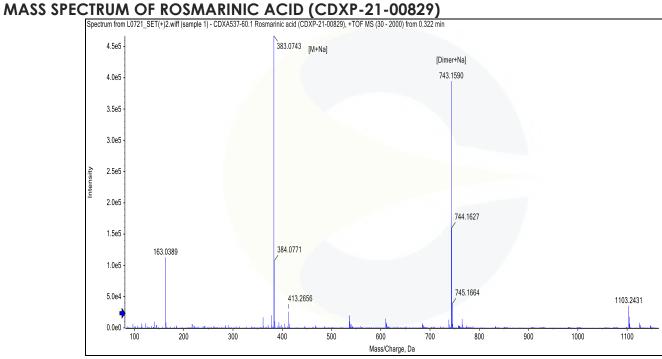




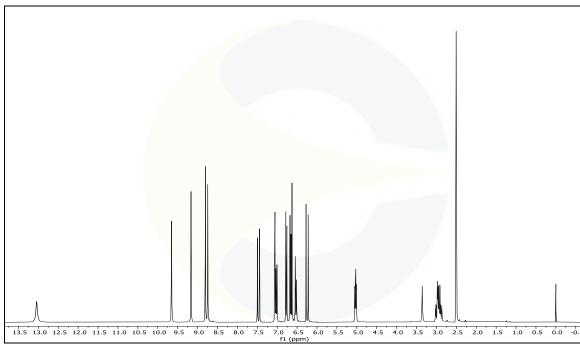


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¹H-NMR SPECTRUM OF ROSMARINIC ACID (CDXP-21-00829) IN DMSO-d₆ + TMS





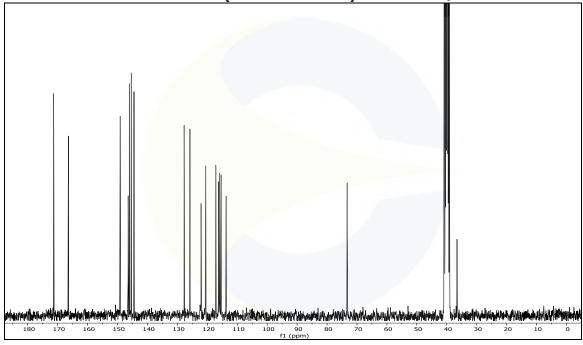




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¹³C-NMR SPECTRUM ROSMARINIC ACID (CDXP-21-00829) IN DMSO-d₆ + TMS





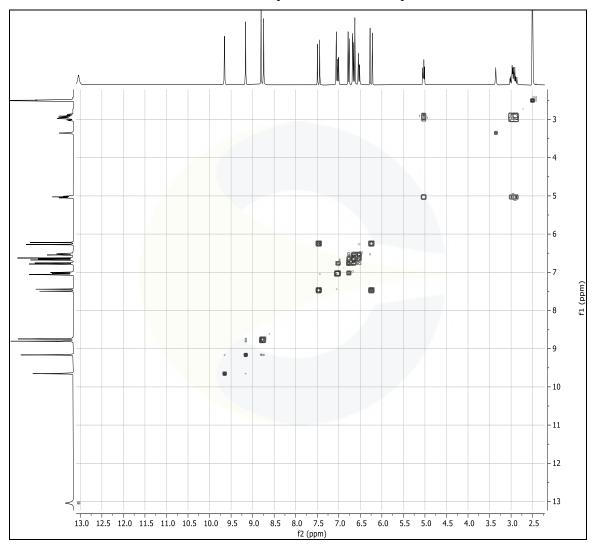




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COSY-NMR SPECTRUM OF ROSMARINIC ACID (CDXP-21-00829) IN DMSO-d₆ + TMS



REVISION HISTORY

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

00 12/17/2021 New report