





Certificate of Analysis

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PRODUCT NAME Carnosol

PART NUMBER 00003199

STANDARD TYPE Primary (P)

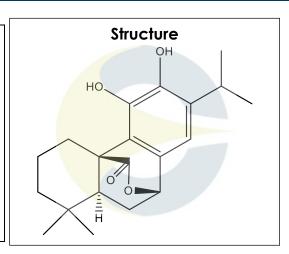
LOT NUMBER 00003199-5H0

REPORT NUMBER CDXA-RSS-9288-00

SAMPLE NUMBER CDXP-21-00049

DATE OF SAMPLE 01/22/2021

DATE OF REPORT 03/12/2021



CHEMICAL NAMES 7β,11,12-Trihydroxy-13-isopropyl-podocarpa-8,11,13-trien-17-oic acid 17,7-

lactone; Picrosalvin

CHEMICAL FORMULA C₂₀H₂₆O₄

MOLECULAR WEIGHT (MW) 330.42

CHEMICAL FAMILY Phenols

CAS NUMBER [5957-80-2]

EC#(EINECS) N/A

RTECS KD0150000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.4%
HPLC	0.700.10.2.METH22	≥ 90%	99.5%
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: 731 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.4% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 99.5% HPLC

STORAGE CONDITIONS

STORAGE -20 °C in a dry place.

EXPIRATION DATE 01/2026 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

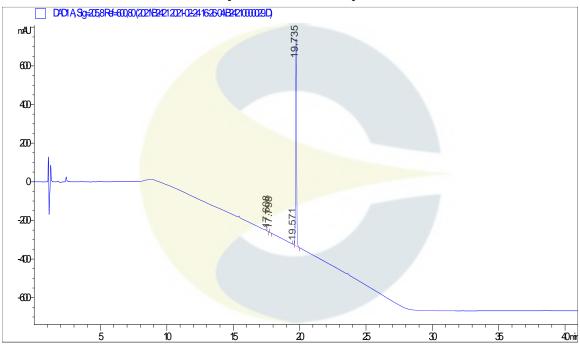
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.4 μL

INJECTION CONC. 1.1 mg/mL in 1% acetic acid in methanol

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

HPLC CHROMATOGRAM OF CARNOSOL (CDXP-21-00049)





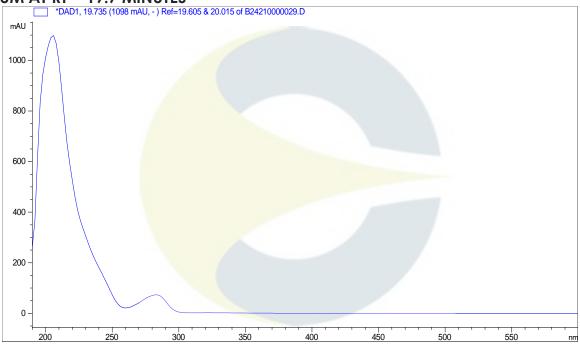




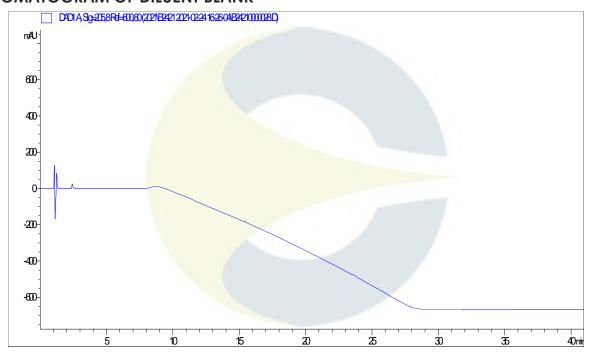
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UV SPECTRUM AT RT = 19.7 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





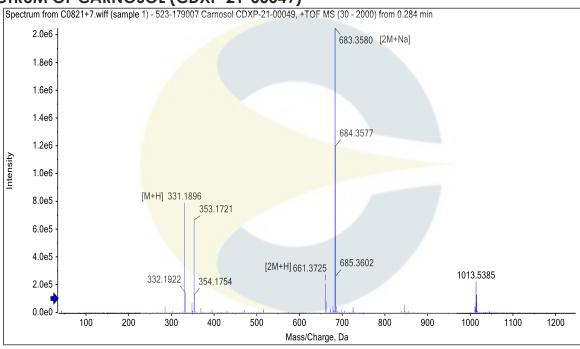




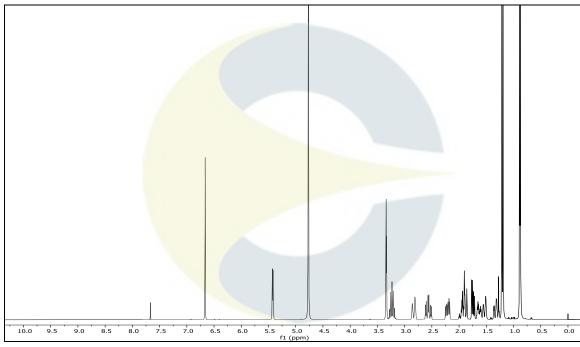
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MASS SPECTRUM OF CARNOSOL (CDXP-21-00049)



¹H-NMR SPECTRUM OF CARNOSOL (CDXP-21-00049) in CD₃CI + CD₃OD





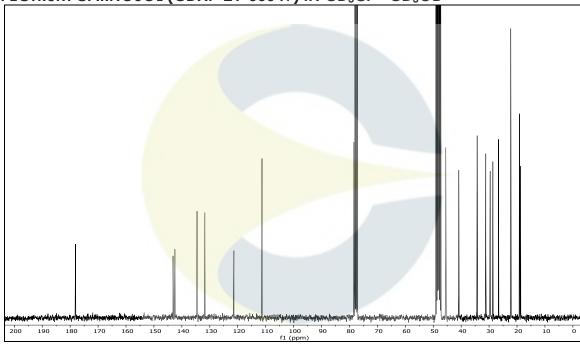




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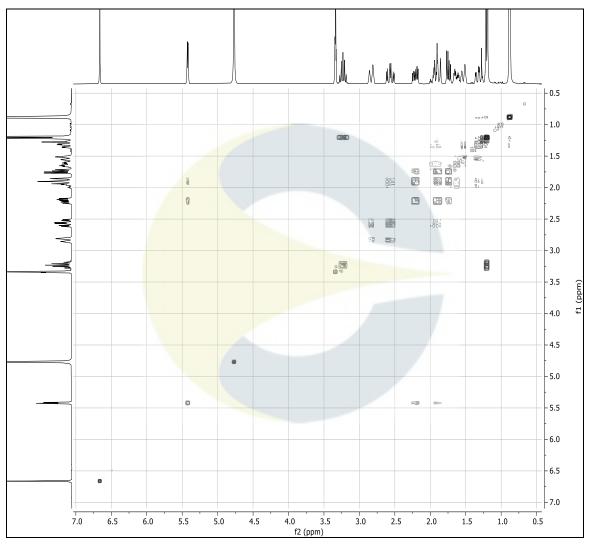




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COSY-NMR SPECTRUM OF CARNOSOL (CDXP-21-00049) IN CD₃CI + CD₃OD



REVISION HISTORY

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

00 03/12/2021 New report