





Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME Leoidin

PART NUMBER 00012117

STANDARD TYPE Analytical Standard (AS)

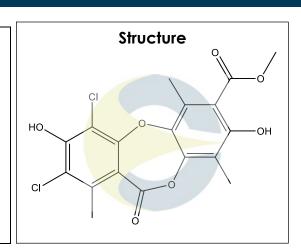
LOT NUMBER 00012117-118

REPORT NUMBER CDXA-RSS-8439-00

SAMPLE NUMBER CDXP-18-01334

DATE OF SAMPLE 12/18/2018

DATE OF REPORT 01/15/2019



CHEMICAL NAMES 2,4-Dichloro-3, 8-dihydroxy-1,6,9-trimethyl-11-oxo-11H-dibenzo[b,e][1,4]-dioxepin-

7-carboxylic acid methyl ester

CHEMICAL FORMULA C₁₈H₁₄Cl₂O₇

MOLECULAR WEIGHT (MW) 413.21

CHEMICAL FAMILY Lichen acids

CAS NUMBER [105350-54-7]

EC#(EINECS) 600-647-4

RTECS NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
HPLC	99.1-04-1.0-000684	NA	88.8%
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Appearance	NA	NA	White powder

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 12/2023 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

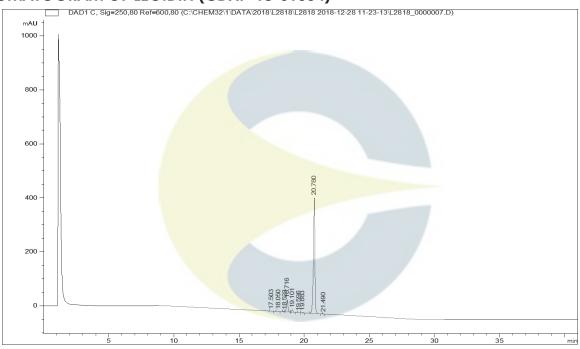
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.5 μL

INJECTION CONC. 1.1 mg/mL in DMSO

DETECTION $250 \pm 40 \text{ nm}$

HPLC CHROMATOGRAM OF LEOIDIN (CDXP-18-01334)





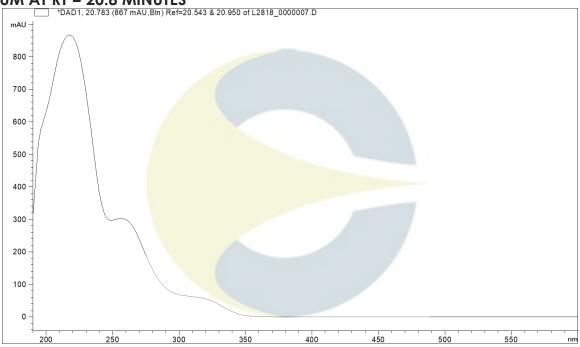




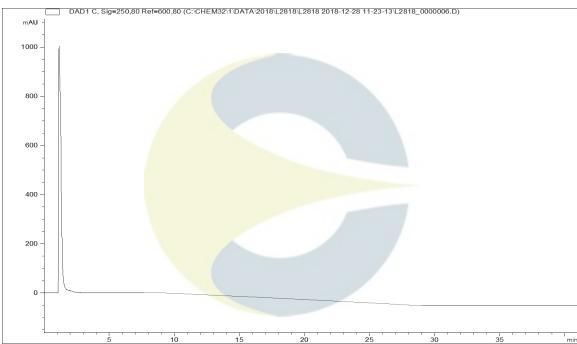
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UV SPECTRUM AT RT = 20.8 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





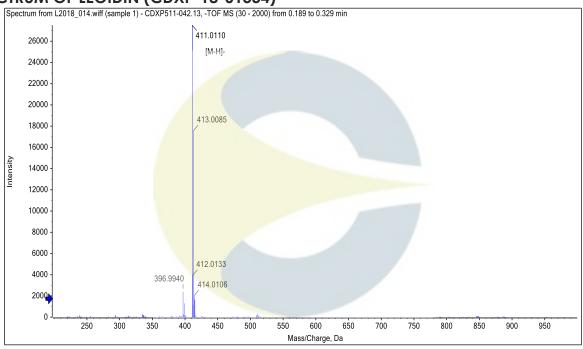




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MASS SPECTRUM OF LEOIDIN (CDXP-18-01334)



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	01/15/2019	New report