





Certificate of Analysis

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PRODUCT NAME Sennoside B

PART NUMBER 00019159

STANDARD TYPE Primary (P)

LOT NUMBER 00019159-304

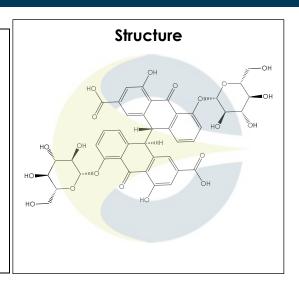
REPORT NUMBER CDXA-RSS-9217-01

SAMPLE NUMBER CDXP-20-00798

DATE OF SAMPLE 11/03/2020

DATE OF RE-EVALUATION 10/11/2021

DATE OF REPORT 10/21/2021



CHEMICAL NAMES (9R,9'S)-5,5'-Bis(β-D-glucopyranosyloxy)-9,9',10,10'-tetrahydro-4,4'-dihydroxy-

10,10'-dioxo-[9,9'-bianthracene]-2,2'-dicarboxylic acid

CHEMICAL FORMULA C₄₂H₃₈O₂₀

MOLECULAR WEIGHT (MW) 862.74

CHEMICAL FAMILY Anthraquinones

CAS NUMBER [128-57-4]

EC#(EINECS) 204-895-0

RTECS VT6010000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	≥ 85%	93.0%	
HPLC	0.700.10.2.METH22	≥ 90%	96.9%	
NMR	0.700.12.4	Conforms to structure	Conforms to structure Conforms	
Mass Spectrum	0.700.12.27	Conforms		
Residual Solvent*	USP <467>	NA	ND	
Water	Water 0.700.12.37		4.0%	
Appearance NA		NA	Yellow powder	

^{*}Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 93.0% IS BASED ON (100 - 0.0 SOLVENTS - 4.0 WATER) X 96.9% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 10/2026 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.

COLUMN TEMP. 60 °C

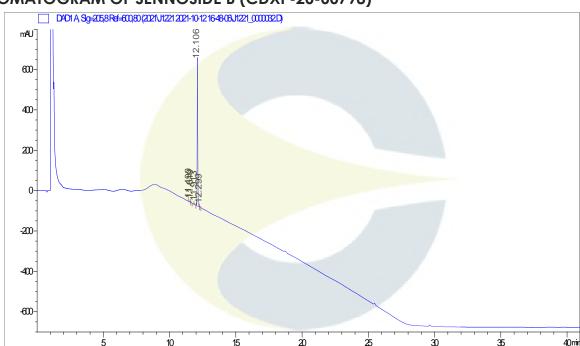
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.2 μL

INJECTION CONC. 1.0 mg/mL in Dimethyl sulfoxide

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

HPLC CHROMATOGRAM OF SENNOSIDE B (CDXP-20-00798)





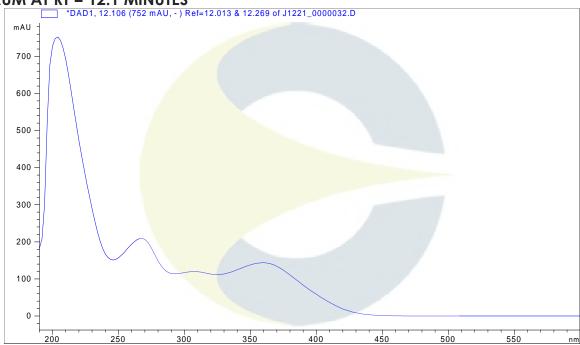




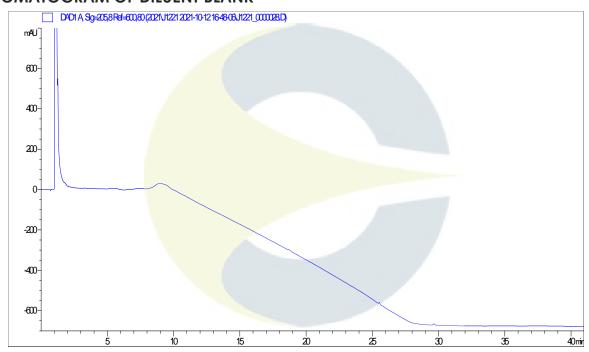
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UV SPECTRUM AT RT = 12.1 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





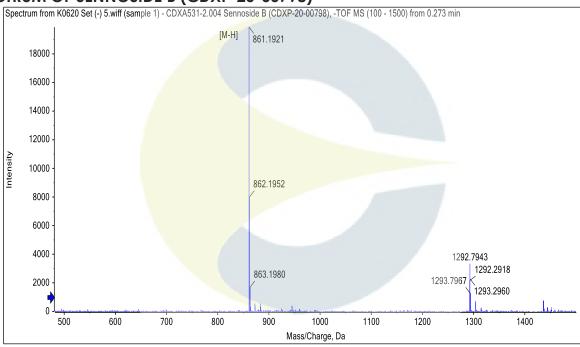




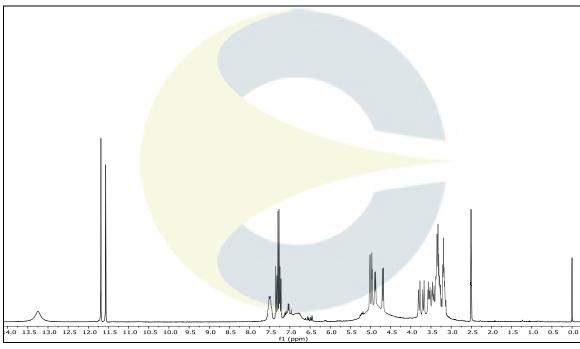
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MASS SPECTRUM OF SENNOSIDE B (CDXP-20-00798)



¹H-NMR SPECTRUM OF SENNOSIDE B (CDXP-20-00798) IN DMSO-d₆ + TMS





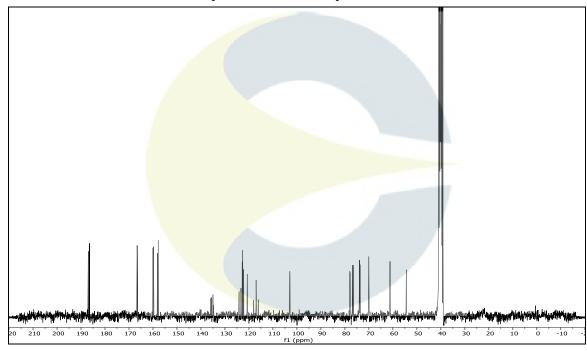




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¹³C-NMR SPECTRUM OF SENNOSIDE B (CDXP-20-00798) IN DMSO-d₆ + TMS





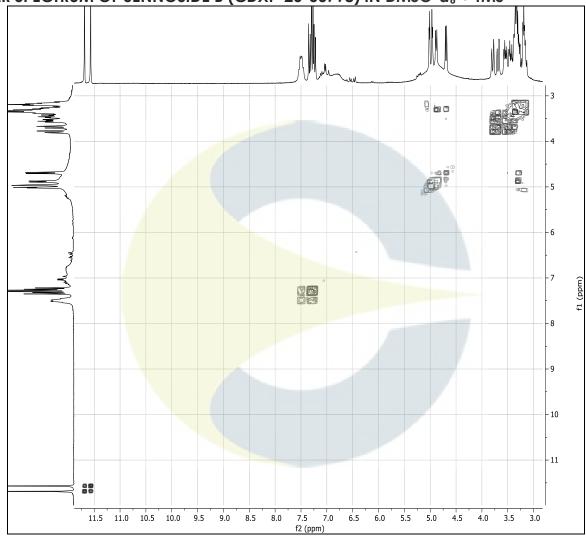




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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/04/2020	New report
01	10/21/2021	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms.