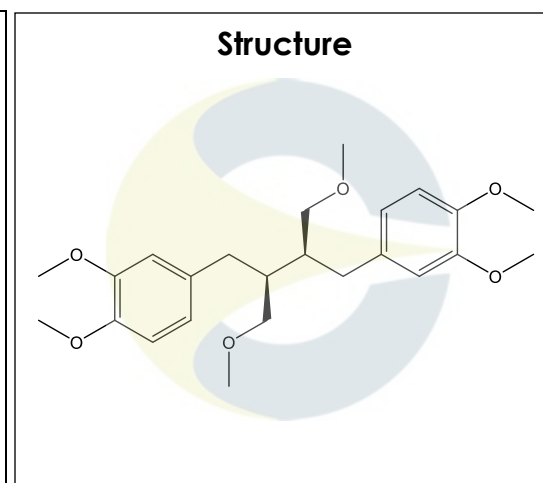


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PRODUCT NAME	Phyllanthin
PART NUMBER	00016750
STANDARD TYPE	Primary (P)
LOT NUMBER	00016750-061
REPORT NUMBER	CDXA-RSS-6895-02
SAMPLE NUMBER	CDXP-15-009289
DATE OF SAMPLE	11/12/2015
DATE OF RE-EVALUATION	08/04/2020
DATE OF REPORT	08/17/2021



CHEMICAL NAMES	(2S,3S)-(+)-1,4-Dimethoxy-2,3-diveratryl-butane
CHEMICAL FORMULA	C ₂₄ H ₃₄ O ₆
MOLECULAR WEIGHT (MW)	418.52
CHEMICAL FAMILY	Lignans
CAS NUMBER	[10351-88-9]
EC#(EINECS)	NA
RTECS	CY8522500

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity*	NA	≥ 85%	99.9%
HPLC*	0.700.10.2.METH22	≥ 90%	99.9%
NMR*	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum*	Direct Infusion: ESI (+)	Conforms	Conforms
Residual Solvent*	99.1-CD-8.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance*	NA	NA	White needles

*Tests not in the scope of ISO 17025 accreditation or completed prior to accreditation.

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	08/2025 under the above conditions.

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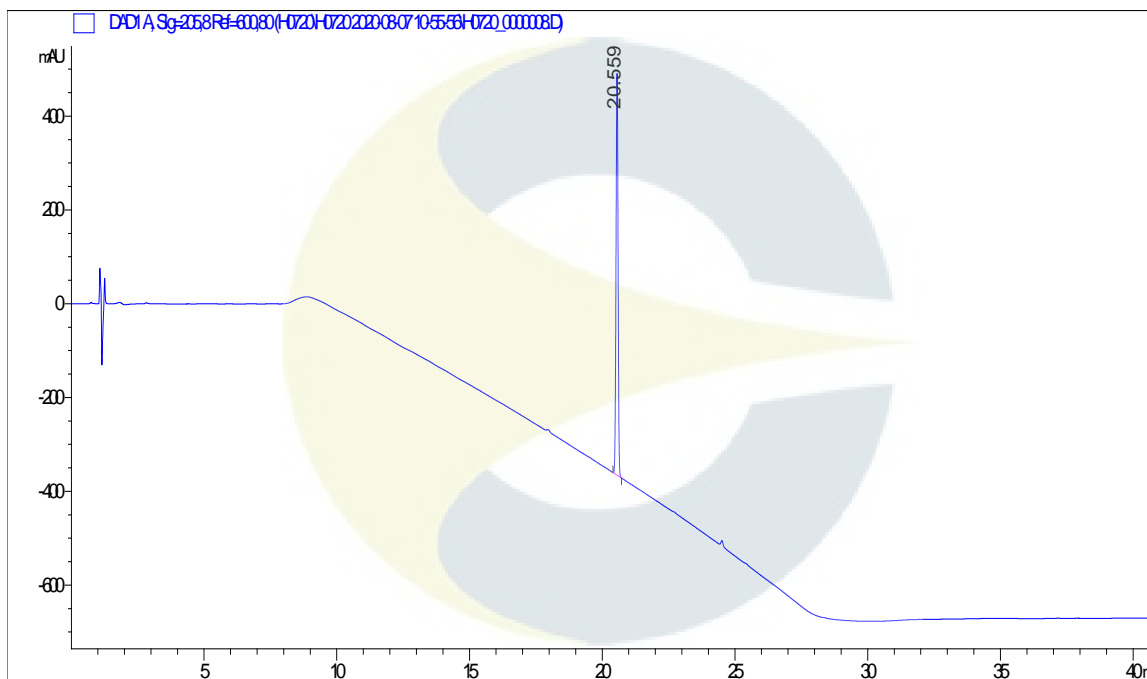
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ANALYTICAL CONDITIONS

INSTRUMENT	Agilent 1260 HPLC UV-Vis (DAD) AGILENT 6510 QTOF
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 ± 4 nm

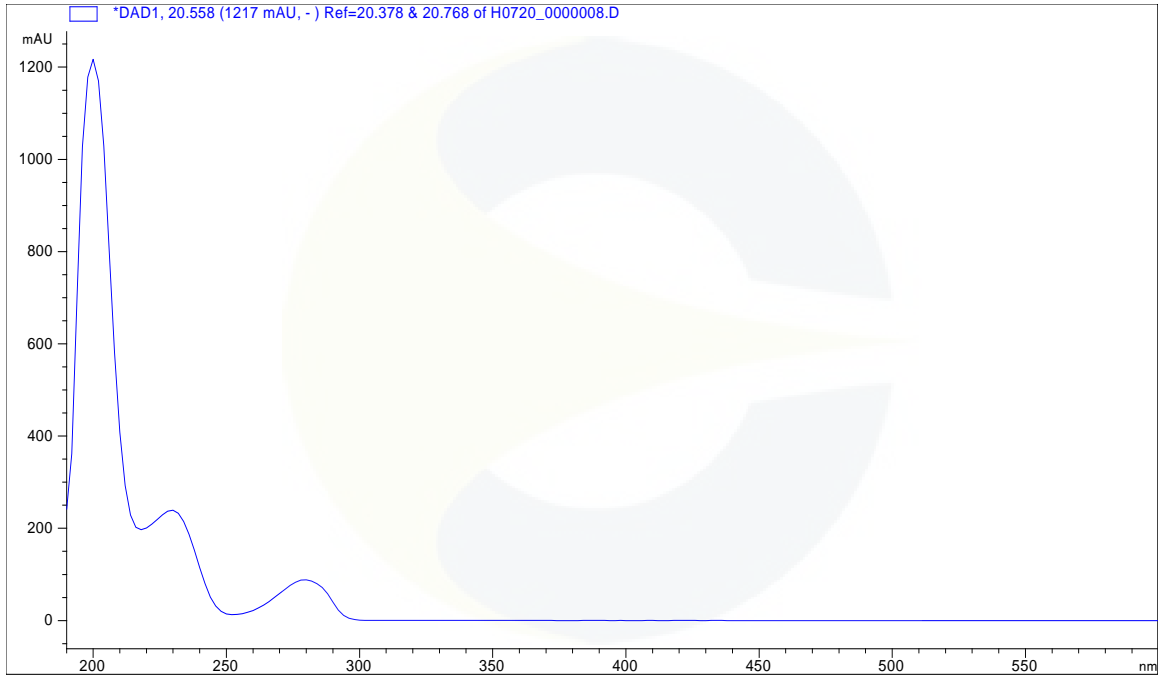
HPLC CHROMATOGRAM OF PHYLLANTHIN (CDXP-15-009289)



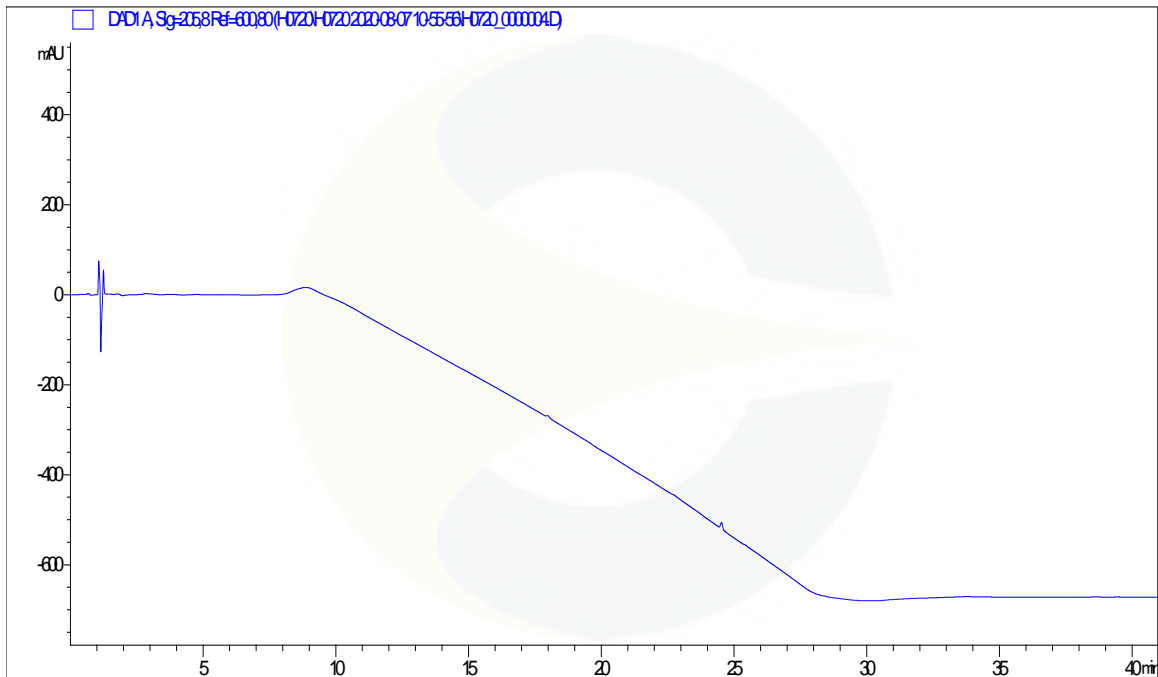
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UV SPECTRUM AT 20.6 MINUTES

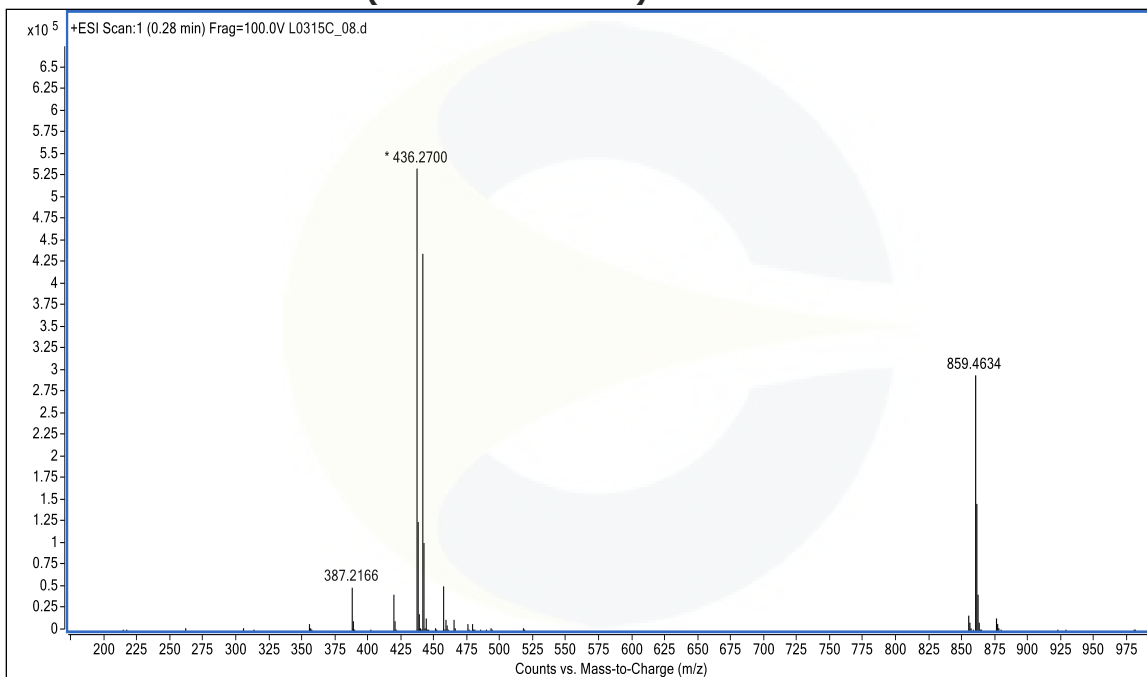


HPLC CHROMATOGRAM OF DILUENT BLANK

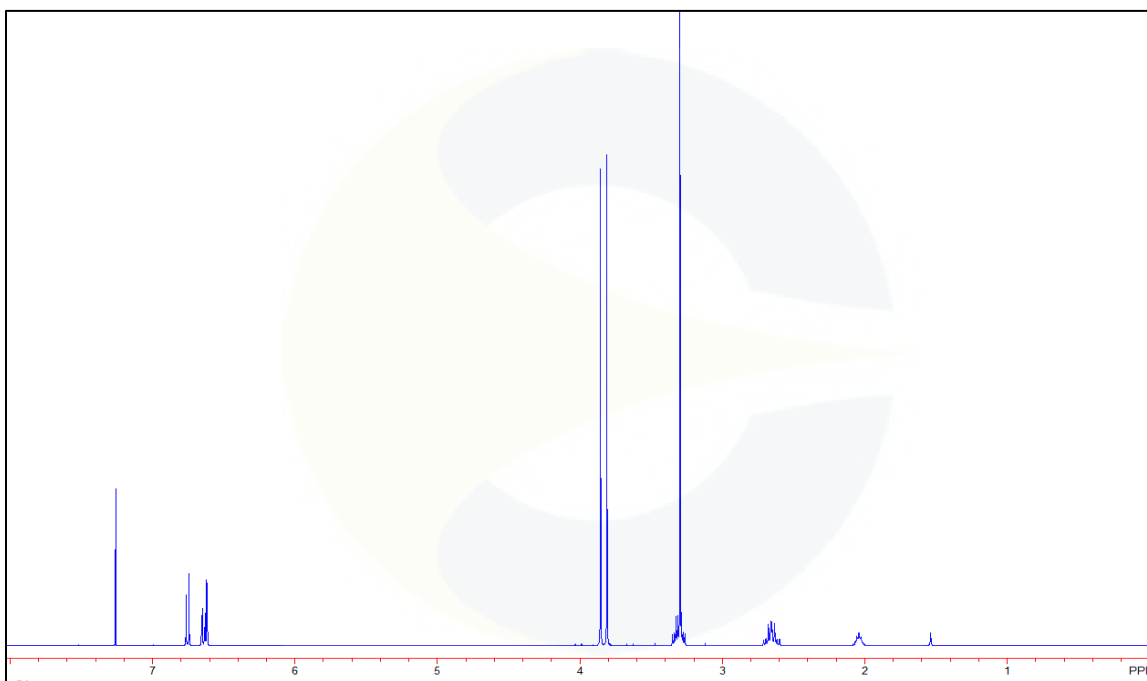


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MASS SPECTRUM OF PHYLLANTHIN (CDXP-15-009289)

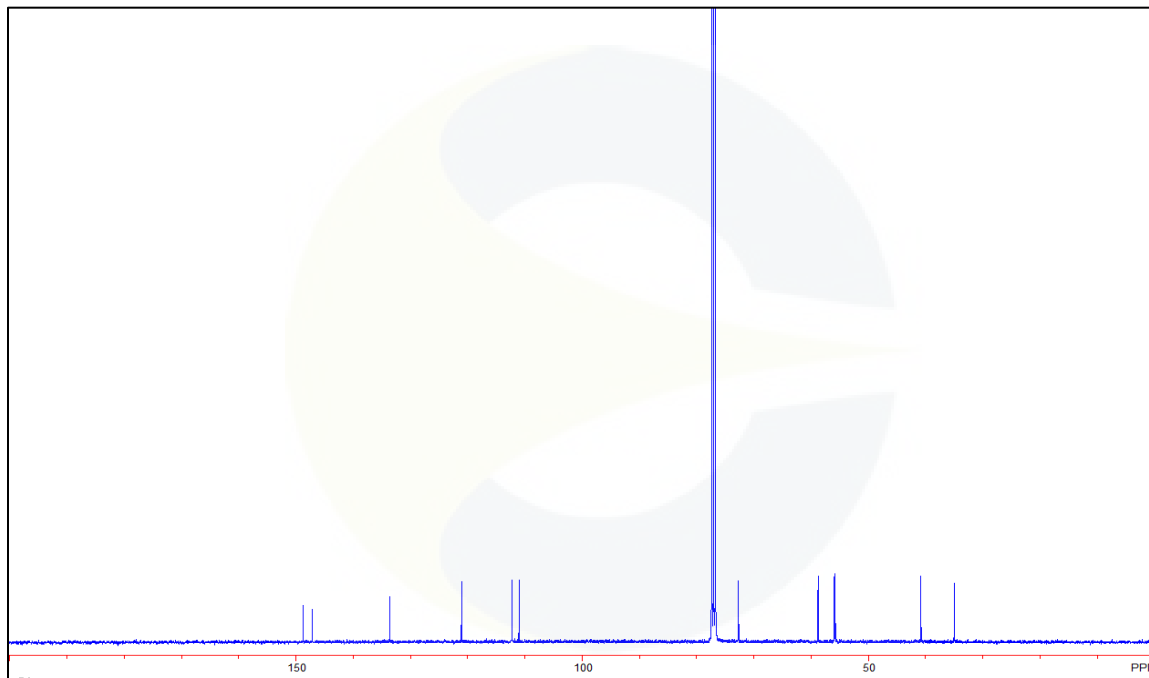


¹H-NMR SPECTRUM OF PHYLLANTHIN (CDXP-15-009289) IN CDCl₃



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¹³C-NMR SPECTRUM OF PHYLLANTHIN (CDXP-15-009289) IN CDCl₃

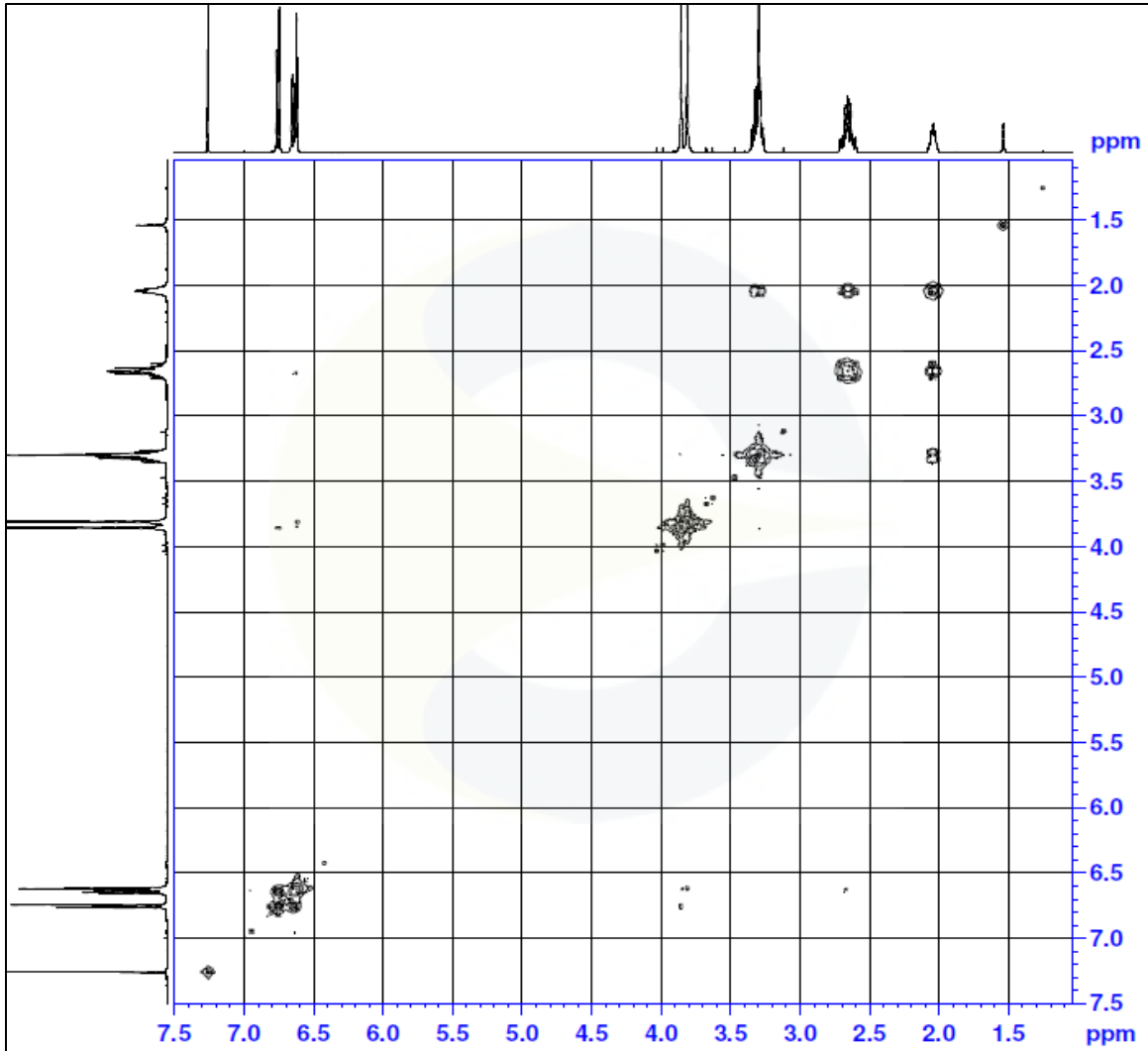


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COSY-NMR SPECTRUM OF PHYLLANTHIN (CDXP-15-009289) IN CDCl₃



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/7/2015	New report
01	08/19/2020	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms, and results. Removed melting point and added RTECS number
02	08/17/2021	Added ISO/IEC 17025:2017 accreditation information.

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