



Certificate of Analysis

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PRODUCT NAME	Hypophyllanthin	Structure
PART NUMBER	00008925	
STANDARD TYPE	Primary (P)	
LOT NUMBER	00008925-002	
REPORT NUMBER	CDXA-RSS-6978-01	\sim \uparrow \downarrow \sim 0.
SAMPLE NUMBER	CDXA-15-010432	
DATE OF SAMPLE	12/15/2015	
DATE OF RE-EVALUATION	09/01/2020	
DATE OF REPORT	09/21/2020	
CHEMICAL NAMES	(7S,8S,9R)-9-(3,4-Dimethoxyphenyl)-6,7, bis(methoxymethyl)-naphtho[1,2-d]-1,3	
CHEMICAL FORMULA	C ₂₄ H ₃₀ O ₇	
MOLECULAR WEIGHT (MW)	430.49	
CHEMICAL FAMILY	Lignans	
CAS NUMBER	[33676-00-5]	
EC#(EINECS)	803-418-9	
RTECS	QL0577000	

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	NA	98.7%	
HPLC	0.700.10.2.METH22	NA	98.8%	
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-9.0-000115	NA	DCM-0.1%	
Water	0.700.12.37	NA	ND	
Appearance	NA	NA	White powder	

98.7% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 98.8% HPLC ADJUSTED PURITY:

STORAGE CONDITIONS

STORAGE

Room Temperature in a dry place.

EXPIRATION DATE 09/2025 under the above conditions.

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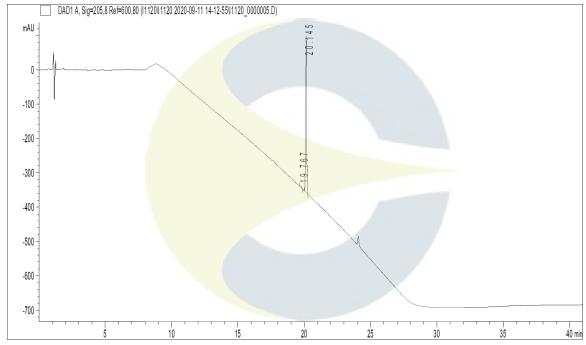
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ANALYTICAL CONDITIONS

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.	0° C0	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	0.1 μL	
INJECTION CONC.	1.1 mg/mL in Methanol	
DETECTION	205 ± 4 nm	

HPLC CHROMATOGRAM OF HYPOPHYLLANTHIN (CDXA-15-010432)



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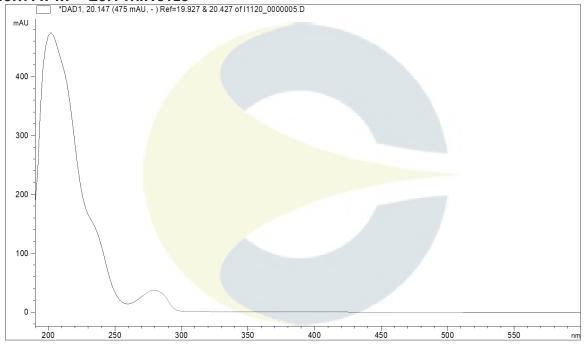
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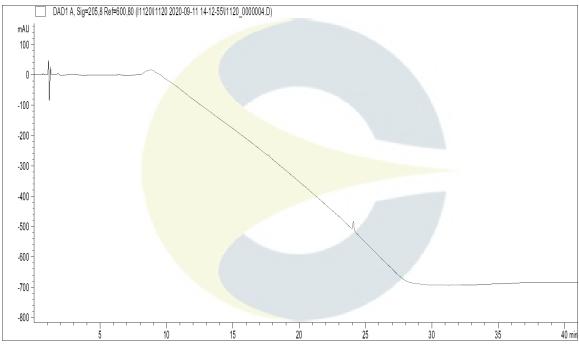
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UV SPECTRUM AT RT = 20.1 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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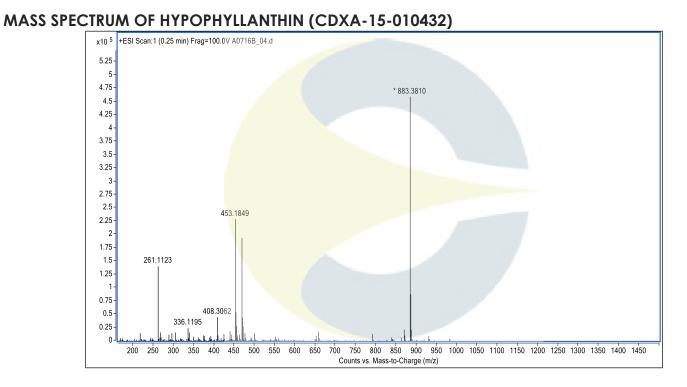
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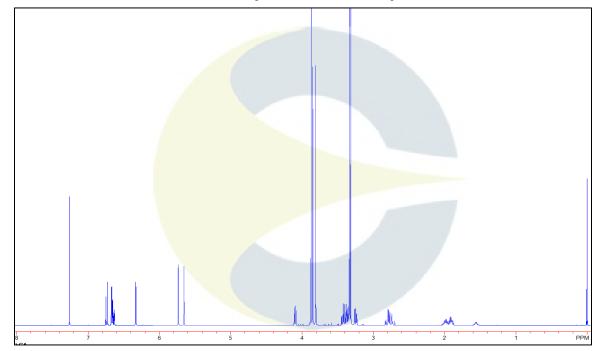


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¹H-NMR SPECTRUM OF HYPOPHYLLANTHIN (CDXA-15-010432) IN CDCl₃



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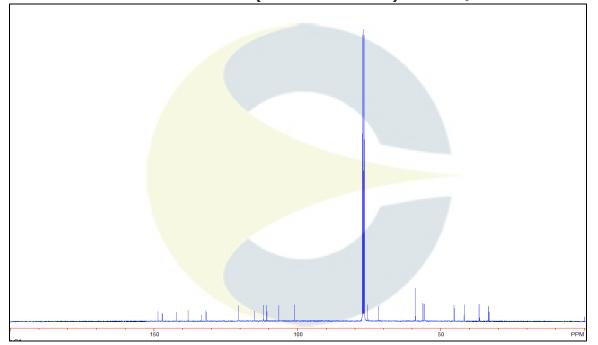
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¹³C-NMR SPECTRUM OF HYPOPHYLLANTHIN (CDXA-15-010432) IN CDCl₃



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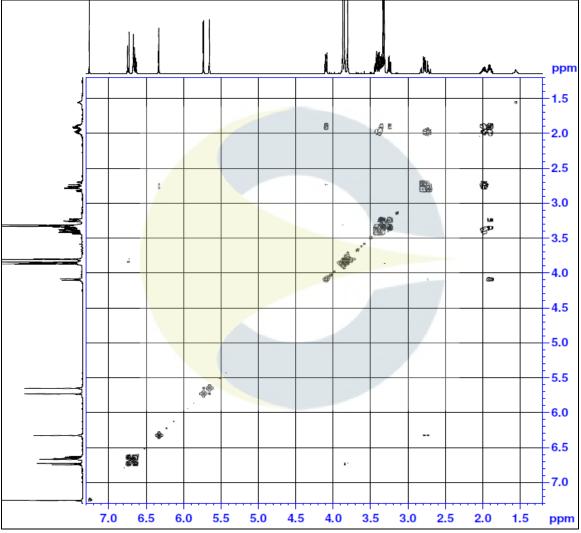




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COSY-NMR SPECTRUM OF HYPOPHYLLANTHIN (CDXA-15-010432) IN CDCI₃



REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	01/15/2016	New report
01	09/21/2020	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms and results. Removed melting point and added EINECS number

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