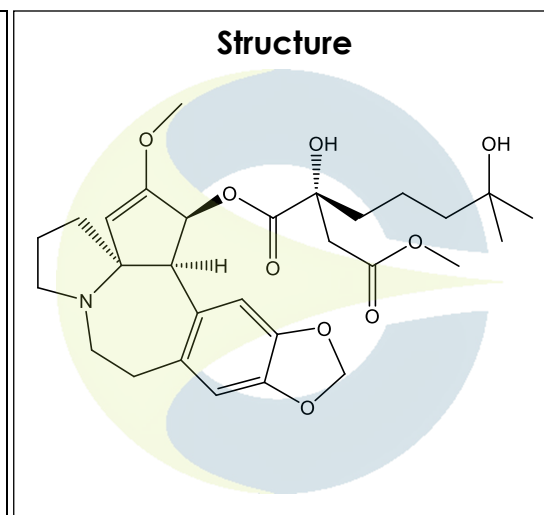


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PRODUCT NAME	Homoharringtonine
PART NUMBER	00008315
STANDARD TYPE	Primary (P)
LOT NUMBER	00008315-301
REPORT NUMBER	CDXA-RSS-3051-02
SAMPLE NUMBER	CDXA-08-1864
DATE OF SAMPLE	08/12/2008
DATE OF RE-EVALUATION	05/09/2013 (1 st); 10/10/2018 (2 nd); 09/07/2022 (3 rd)
DATE OF REPORT	10/04/2022



CHEMICAL NAMES	4-Methyl (2R)-2-hydroxy-2-(4-hydroxy-4-methylpentyl)butanedioate cephalotaxine (ester); Omacetaxine mepesuccinate
CHEMICAL FORMULA	C ₂₉ H ₃₉ NO ₉
MOLECULAR WEIGHT (MW)	545.62
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[26833-87-4]
EC#(EINECS)	636-662-8
RTECS	FK0260000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	96.4%
HPLC	0.700.10.2.METH22	≥ 90%	97.2%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms
Residual Solvent	99.1-CD-2.0-000115	NA	ND
Water	0.700.12.37	NA	0.8%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 96.4% IS BASED ON (100 - 0.0 SOLVENTS - 0.8 WATER) X 97.2% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	09/2027 under the above conditions.

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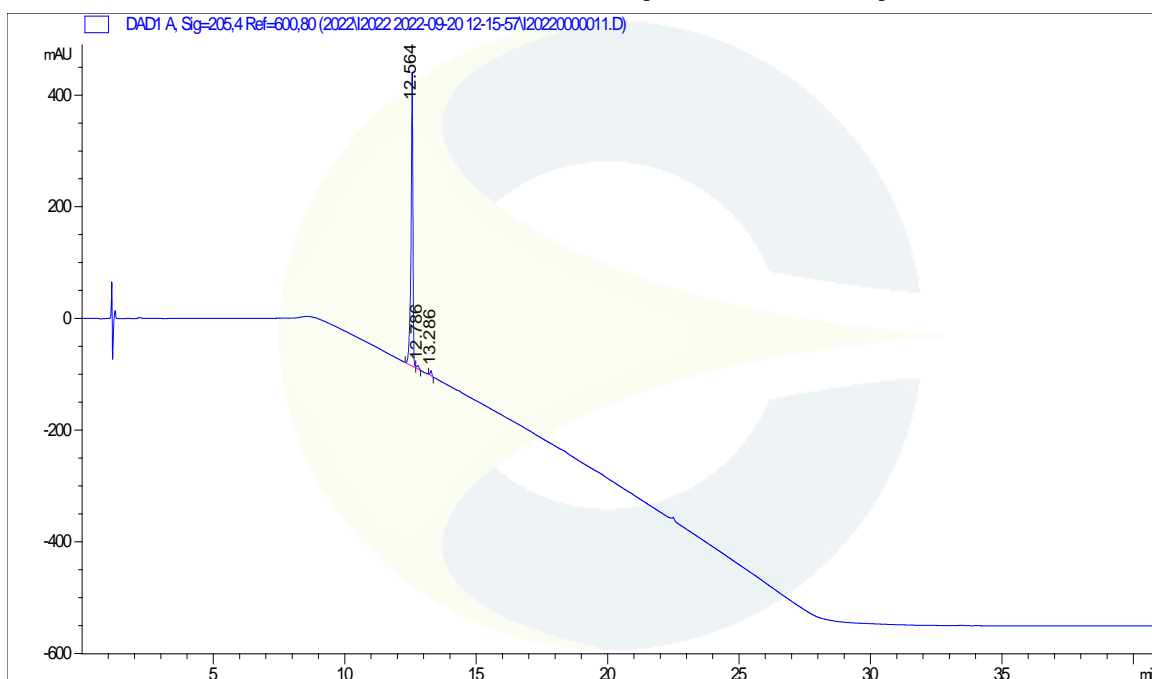
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA
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.	0.2 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	205 ± 2 nm

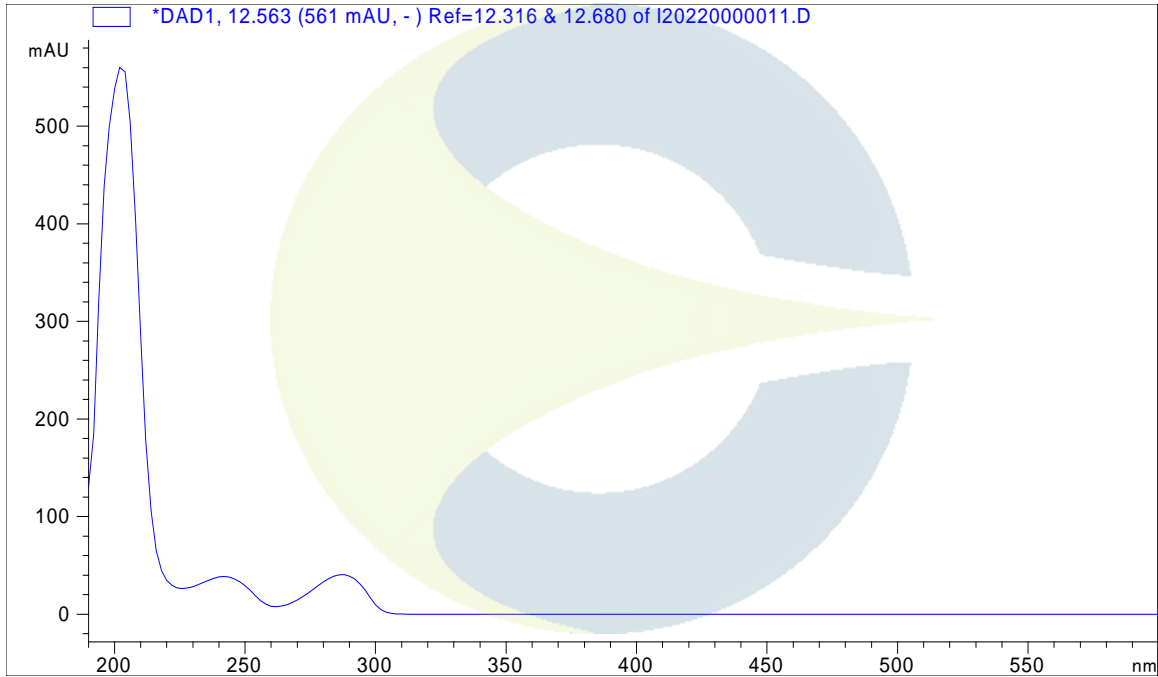
HPLC CHROMATOGRAM OF HOMO HARRINGTONINE (CDXA-08-1864)



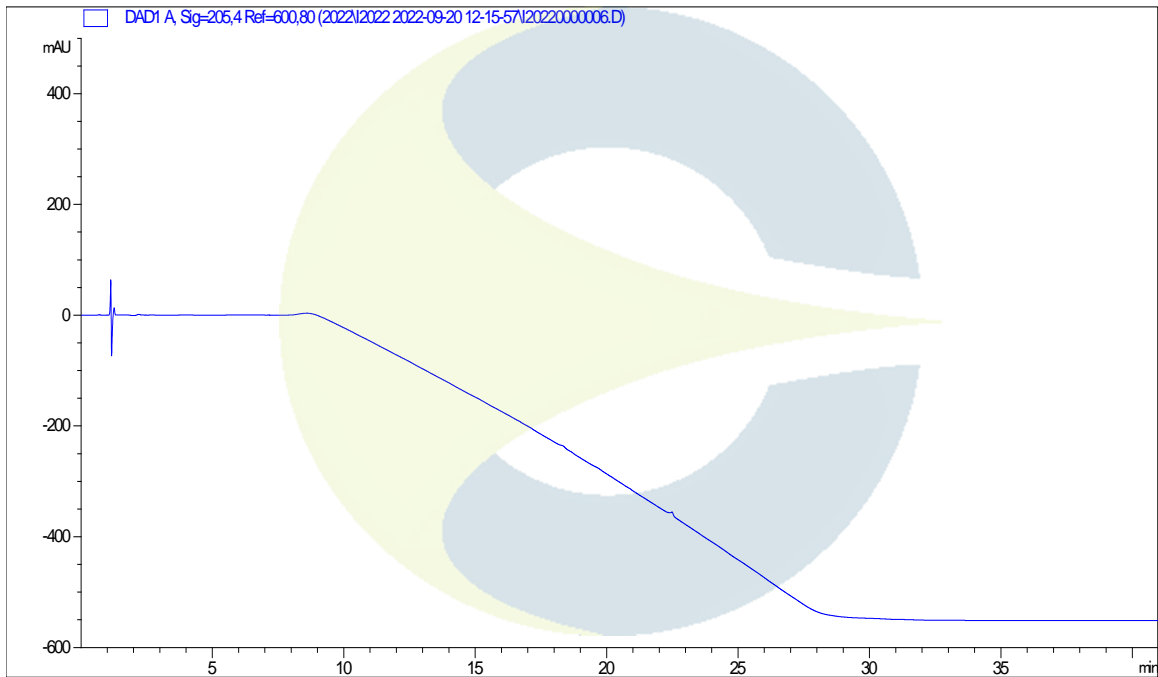
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UV SPECTRUM AT RT = 12.6 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

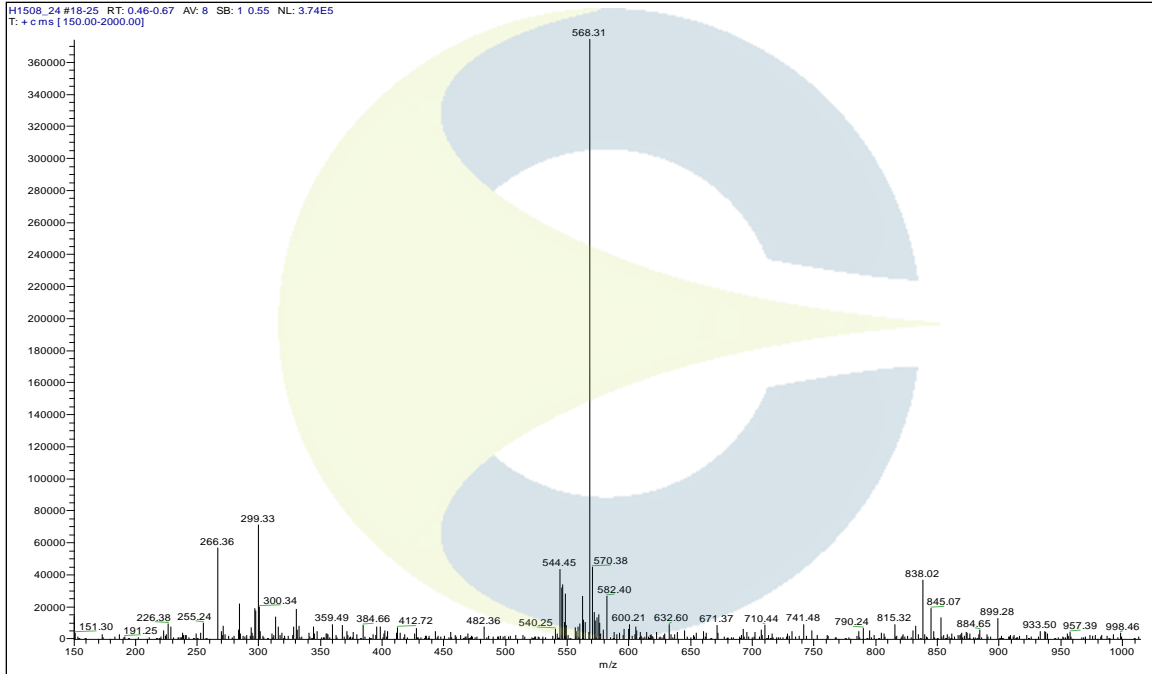


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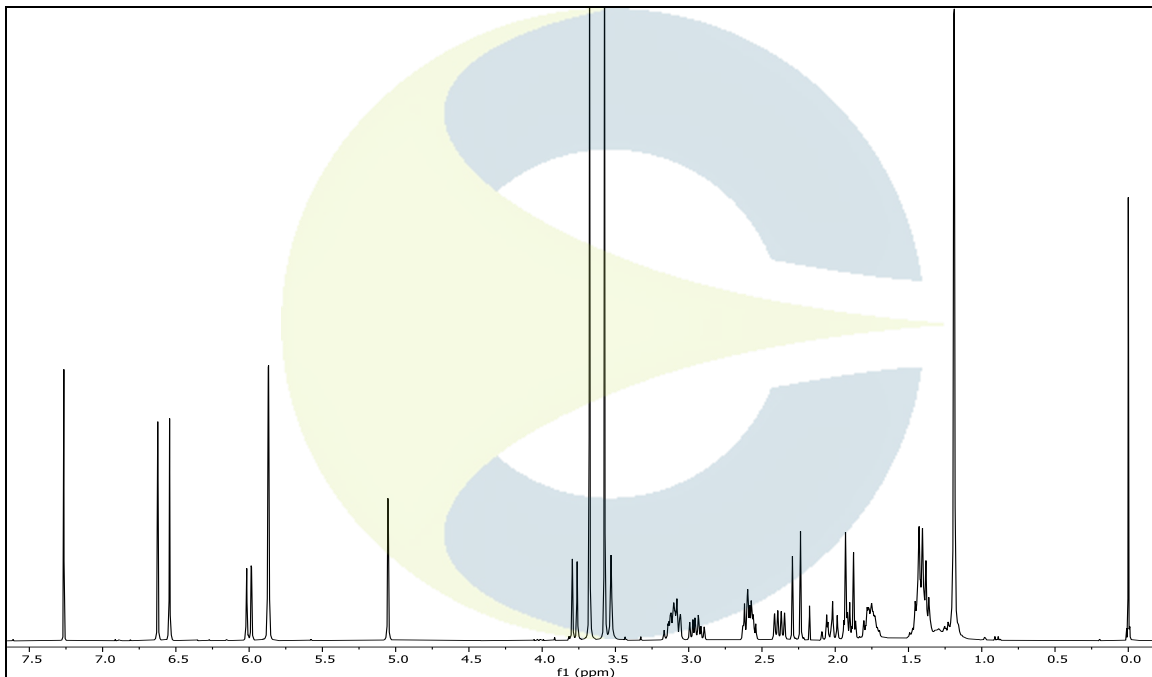
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Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

MASS SPECTRUM OF HOMOHARRINGTONINE (CDXA-08-1864)



¹H-NMR SPECTRUM OF HOMOHARRINGTONINE (CDXA-08-1864) IN CDCl₃ + TMS



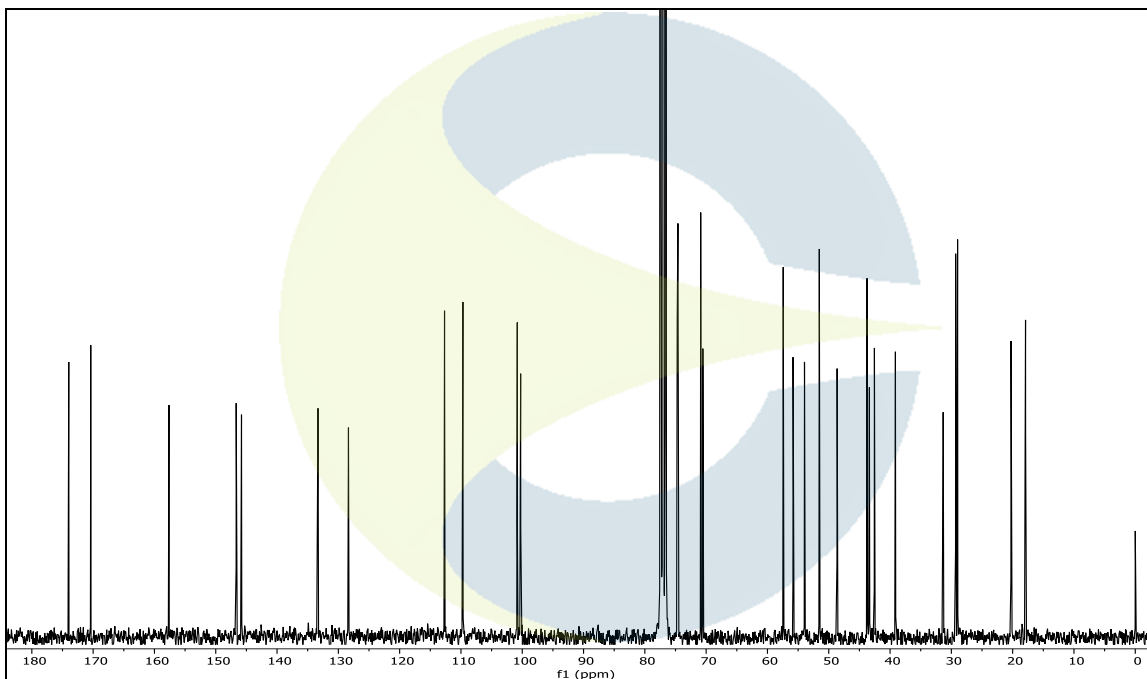
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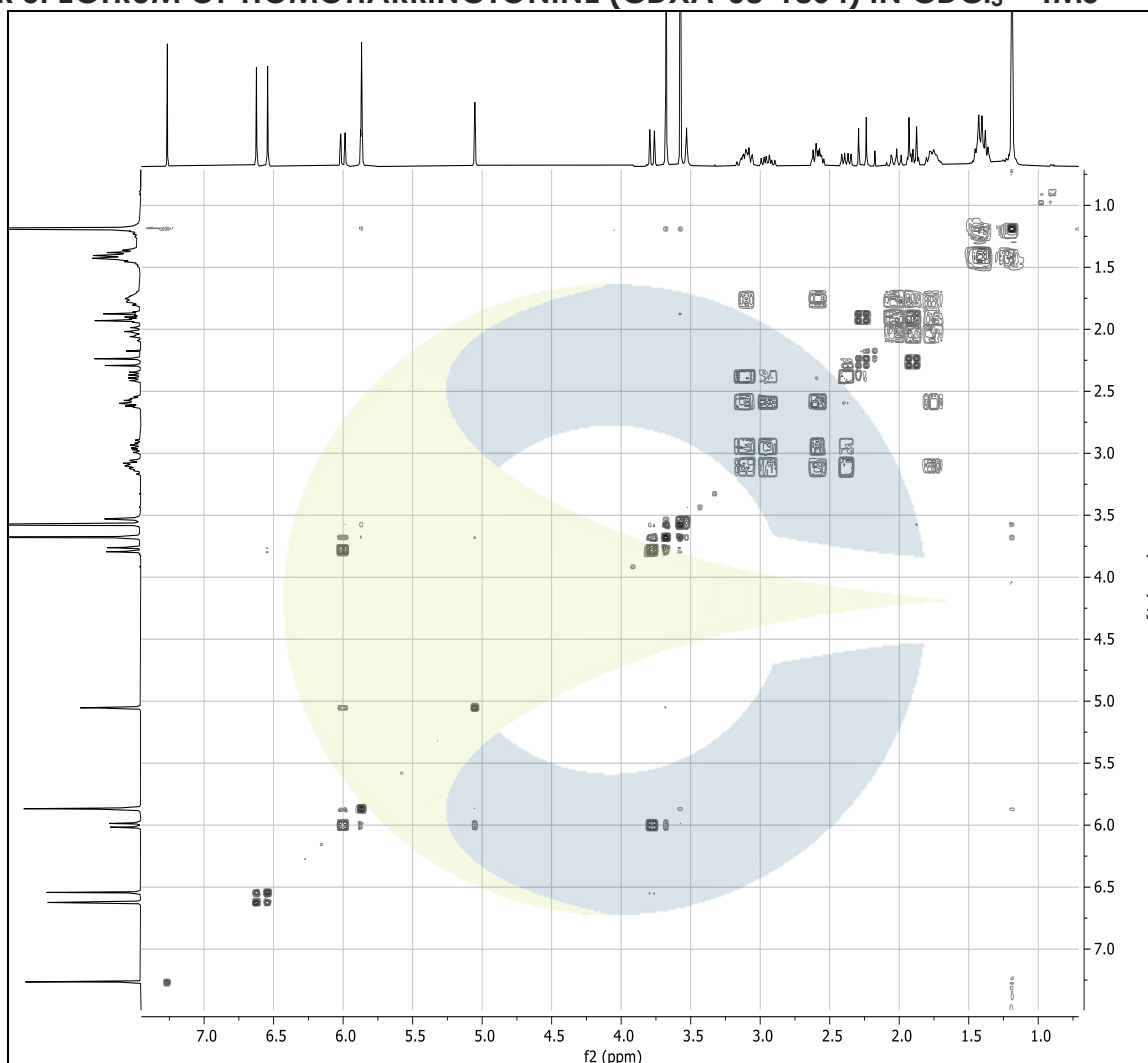
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¹³C-NMR SPECTRUM OF HOMO HARRINGTONINE (CDXA-08-1864) IN CDCl₃ + TMS

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COSY-NMR SPECTRUM OF HOMOHARRINGTONINE (CDXA-08-1864) IN CDCl₃ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/16/2013	New report and first re-evaluation
01	11/06/2018	Passed second re-evaluation by HPLC and KF. Updated expiration date, analytical conditions, chromatograms and results. Removed melting point.
02	10/04/2022	Passed third re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, NMR spectra, and chromatograms. Added EC#.

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