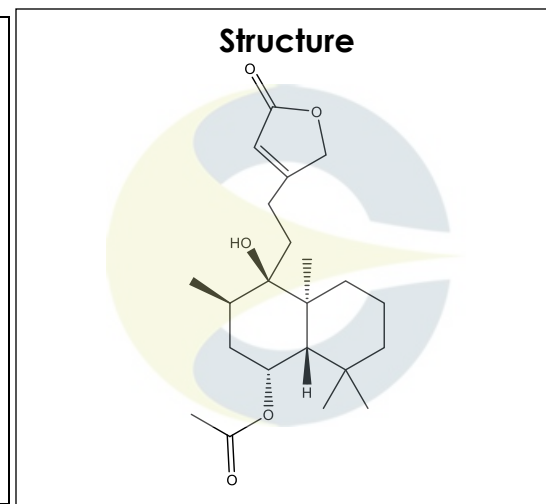


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PRODUCT NAME	Vitexilactone
PART NUMBER	00022845
STANDARD TYPE	Primary (P)
LOT NUMBER	00022845-111
REPORT NUMBER	CDXA-RSS-4793-02
SAMPLE NUMBER	CDXA-11-6204
DATE OF SAMPLE	11/18/2011
DATE OF RE-EVALUATION	12/27/2016 (1 st); 11/17/2021 (2 nd)
DATE OF REPORT	12/03/2021



CHEMICAL NAMES	4-[2-[(1R,2R,4R,4aS,8aS)-4-(Acetyloxy)decahydro-1-hydroxy-2,5,5,8a-tetramethyl-1-naphthaleny]ethyl]-2(5H)-furanone
CHEMICAL FORMULA	C ₂₂ H ₃₄ O ₅
MOLECULAR WEIGHT (MW)	378.50
CHEMICAL FAMILY	Diterpenes
CAS NUMBER	[61263-49-8]
EC#(EINECS)	NA
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.7%
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-5.0-000115	NA	Acetone – 0.1%; CHCl ₃ – 0.2%; EtOH – 1.9%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 97.7% IS BASED ON (100 - 2.2 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	11/2026 under the above conditions.

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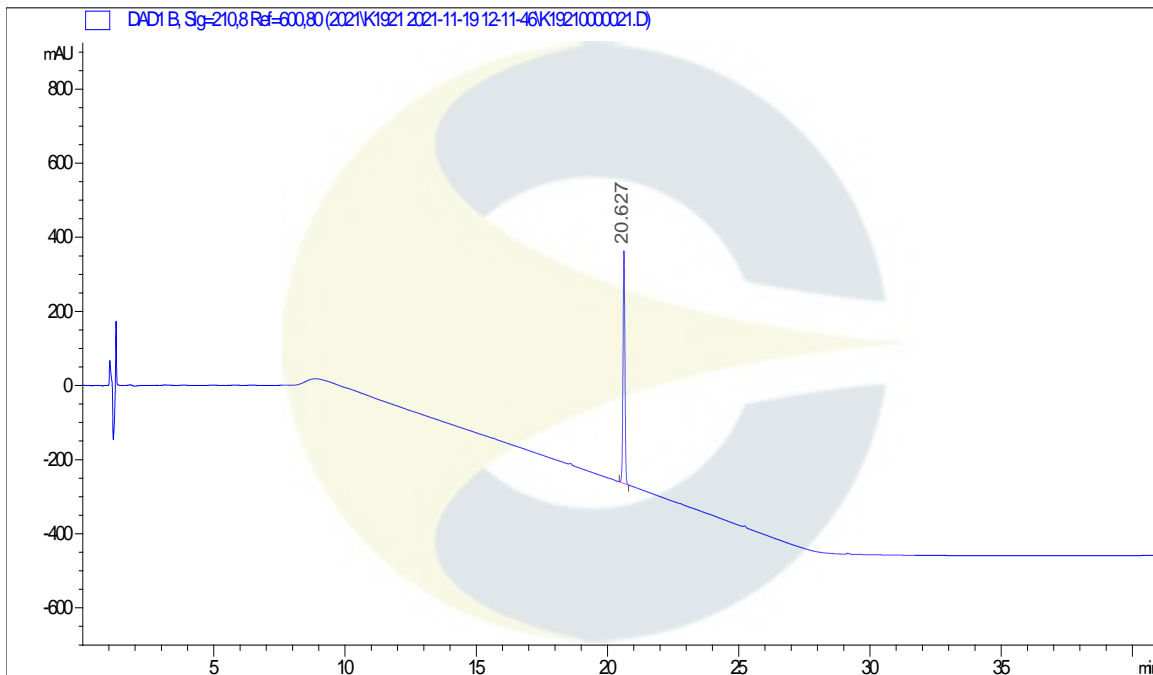
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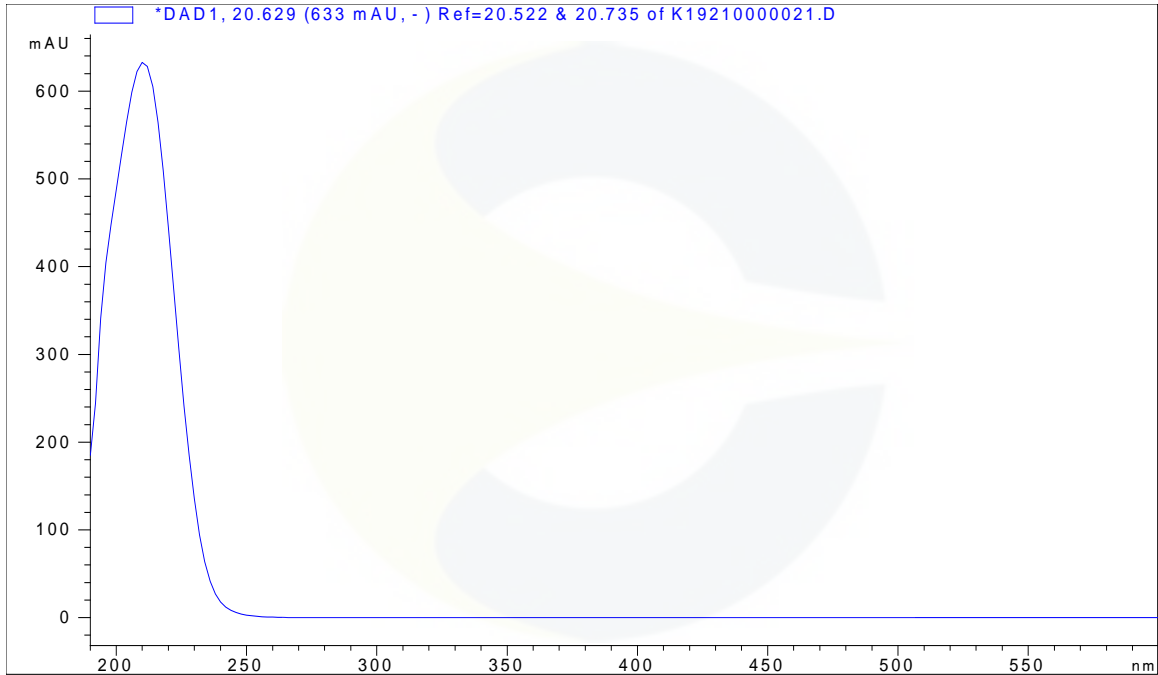
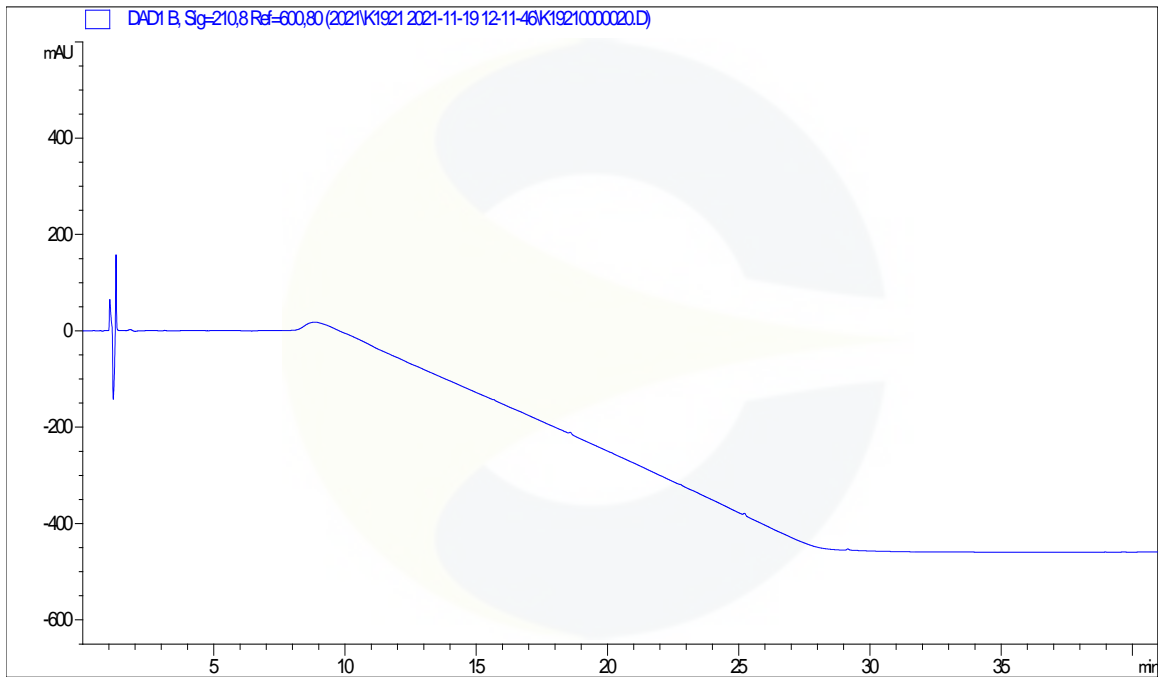
ANALYTICAL CONDITIONS

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.	0.4 μL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	210 ± 4 nm

HPLC CHROMATOGRAM OF VITEXILACTONE (CDXA-11-6204)



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UV SPECTRUM AT RT = 20.6 MINUTES

HPLC CHROMATOGRAM OF DILUENT BLANK


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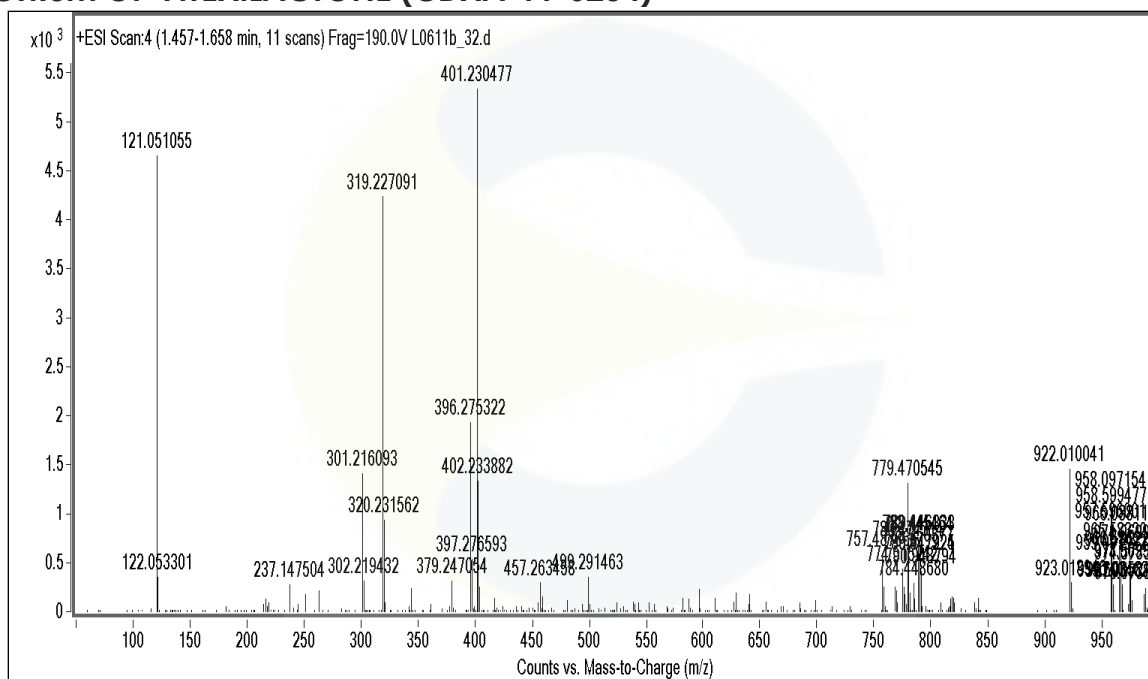
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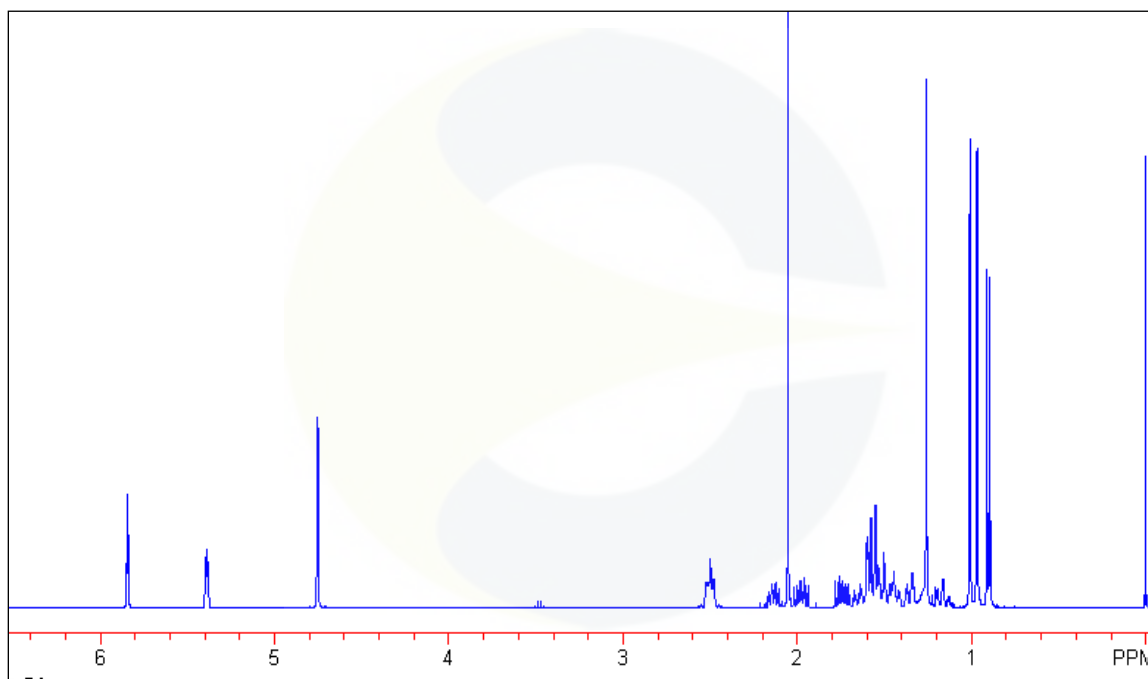
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MASS SPECTRUM OF VITEXILACTONE (CDXA-11-6204)



¹H-NMR SPECTRUM OF VITEXILACTONE (CDXA-11-6204) IN CDCl₃



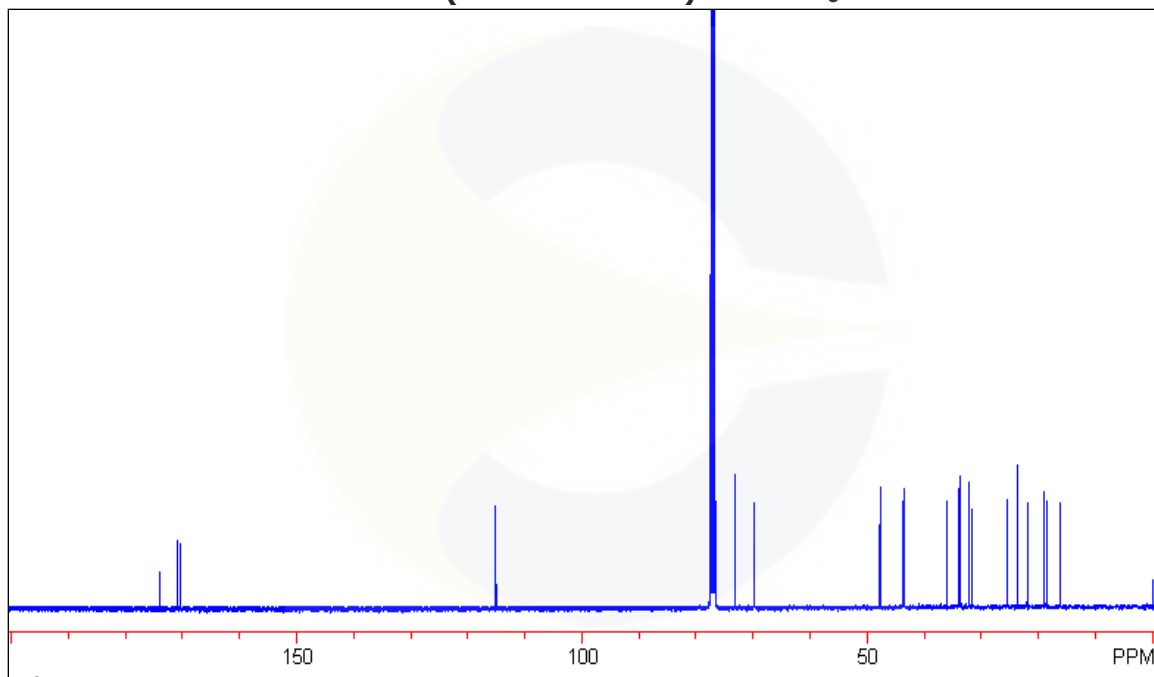
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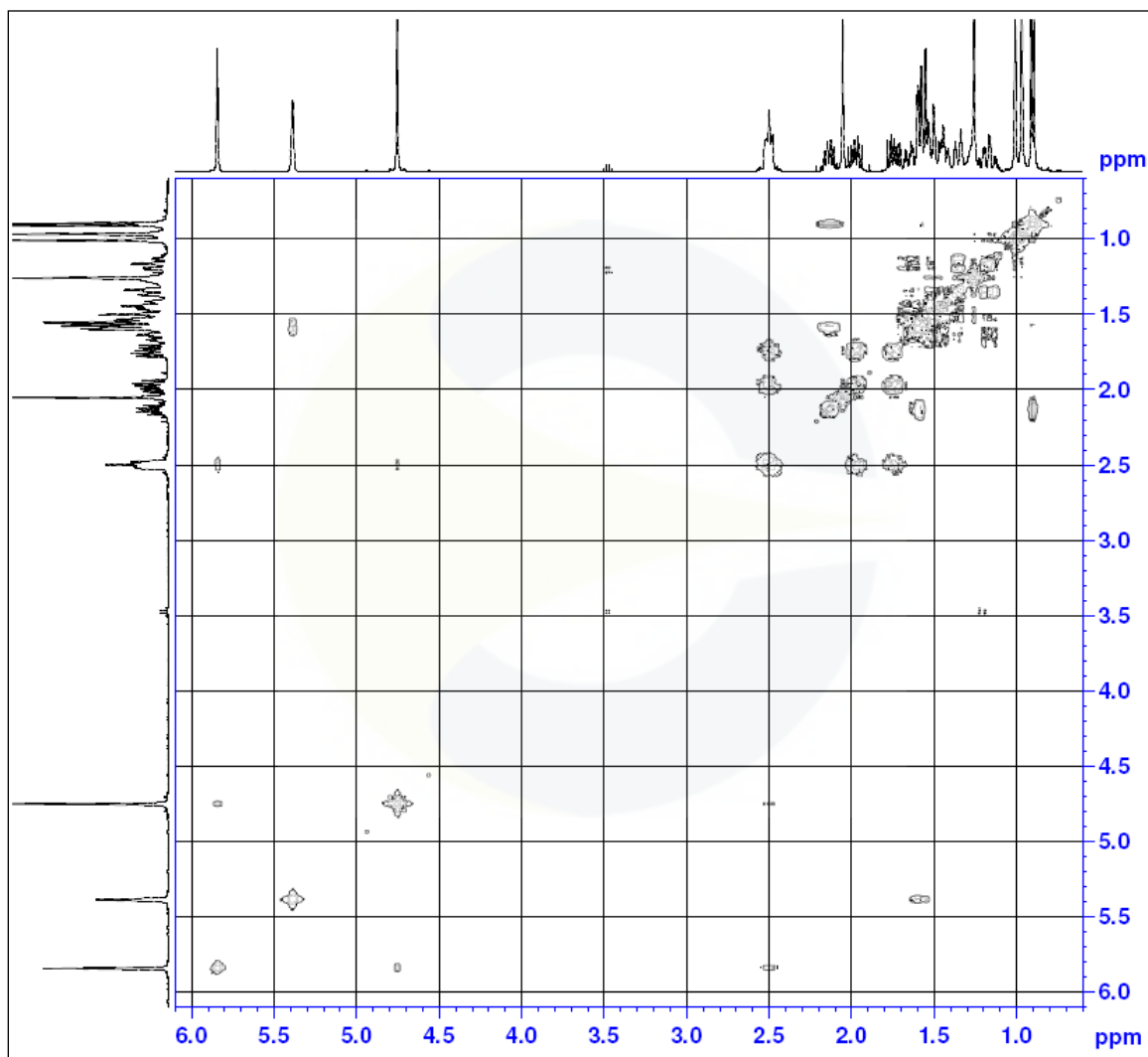
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¹³C-NMR SPECTRUM OF VITEXILACTONE (CDXA-11-6204) IN CDCl₃

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

COSY-NMR SPECTRUM OF VITEXILACTONE (CDXA-11-6204) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/20/2011	New report
01	01/18/2017	Passed re-evaluation by HPLC, KF. Updated expiration date.
02	12/03/2021	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms. Removed melting point.

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