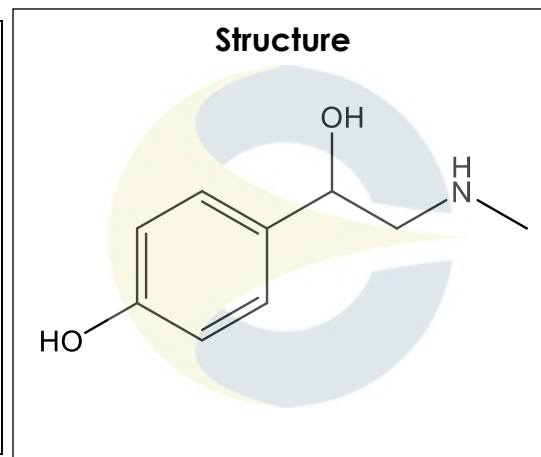


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PRODUCT NAME	Synephrine
PART NUMBER	00019445
STANDARD TYPE	Primary (P)
LOT NUMBER	00019445-1701
REPORT NUMBER	CDXA-RSS-9311-00
SAMPLE NUMBER	CDXP-21-00136
DATE OF SAMPLE	02/25/2021
DATE OF REPORT	03/31/2021



CHEMICAL NAMES	1-(4-Hydroxyphenyl)-2-(methylamino)ethanol; p-Hydroxy- α -((methylamino)methyl)-benzyl alcohol; Analeptin; Ethaphene; Oxedrine; Parasympatol; Simpalon; Simpatol; Sympaethamine; Sympathol
CHEMICAL FORMULA	C ₉ H ₁₃ NO ₂
MOLECULAR WEIGHT (MW)	167.21
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[94-07-5]
EC#(EINECS)	202-300-9
RTECS	DO7350000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.7%
HPLC	CDXA-AM-111-04	≥ 90%	98.8%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	1.1%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 97.7% IS BASED ON (100 - 0.0 SOLVENTS - 1.1 WATER) X 98.8% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	02/2026 under the above conditions.

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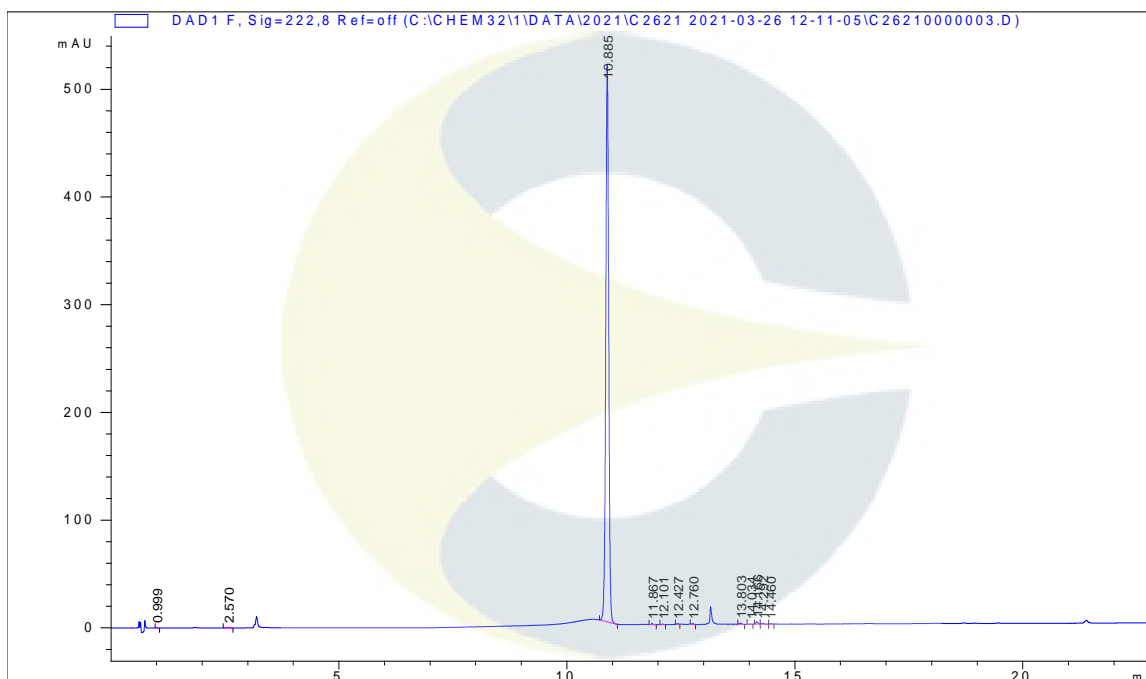
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Synergi Max-RP 150 x 4.6 mm, 4 μm particle size
MOBILE PHASE	A – 10 mM SDS in 0.1% Phosphoric acid (aq), B - Acetonitrile; Isocratic 15% B for 5 minutes, increasing to 95% B over 17.9 minutes, then return to 15% B over 0.1 minutes and re-equilibrate.
COLUMN TEMP.	30 °C
FLOW RATE	0.6 mL/minute
INJECTION VOL.	0.5 μL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	222 ± 4 nm

HPLC CHROMATOGRAM OF SYNEPHRINE (CDXP-21-00136)

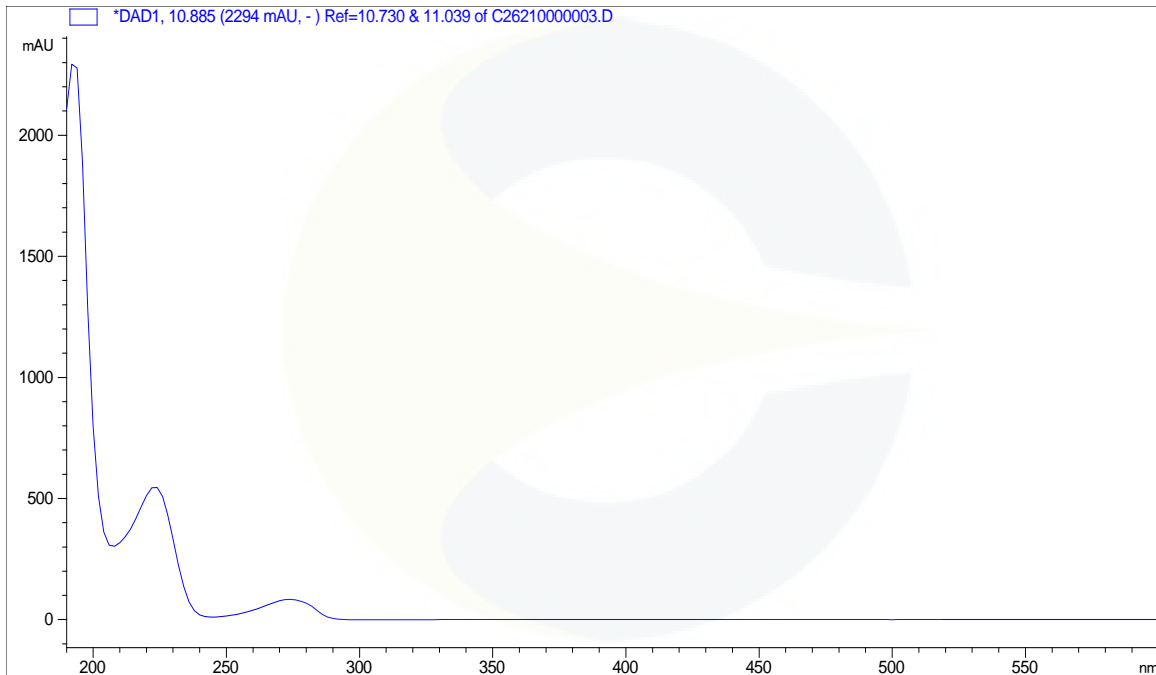


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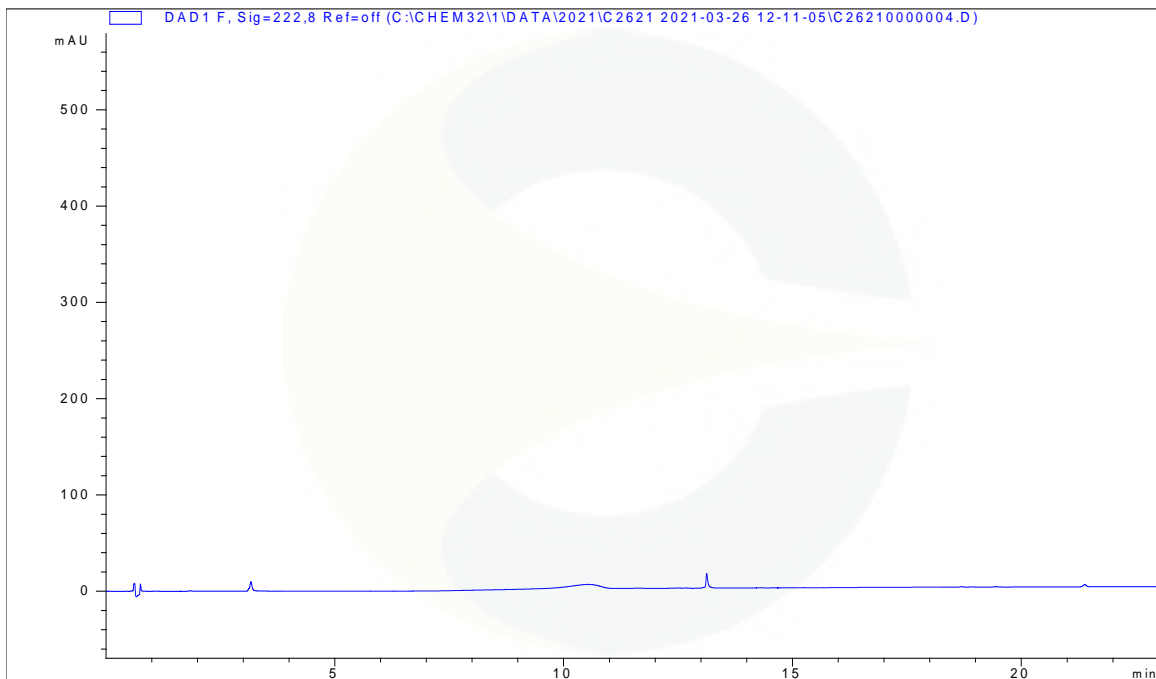
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UV SPECTRUM AT 10.9 MINUTES

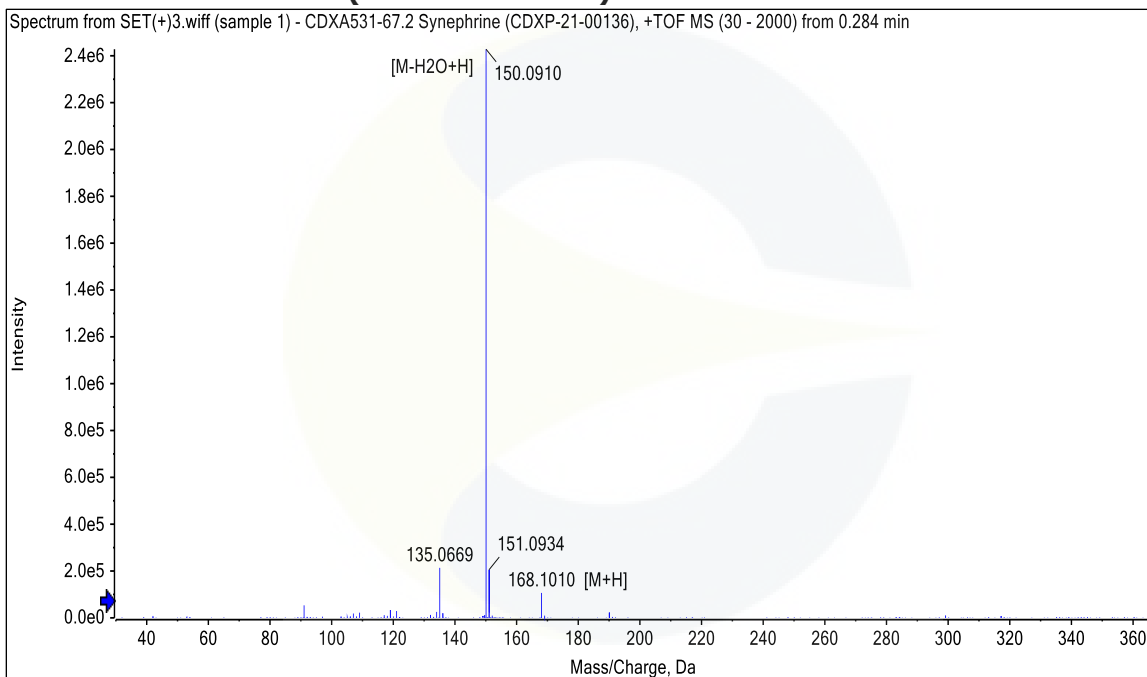


HPLC CHROMATOGRAM OF DILUENT BLANK

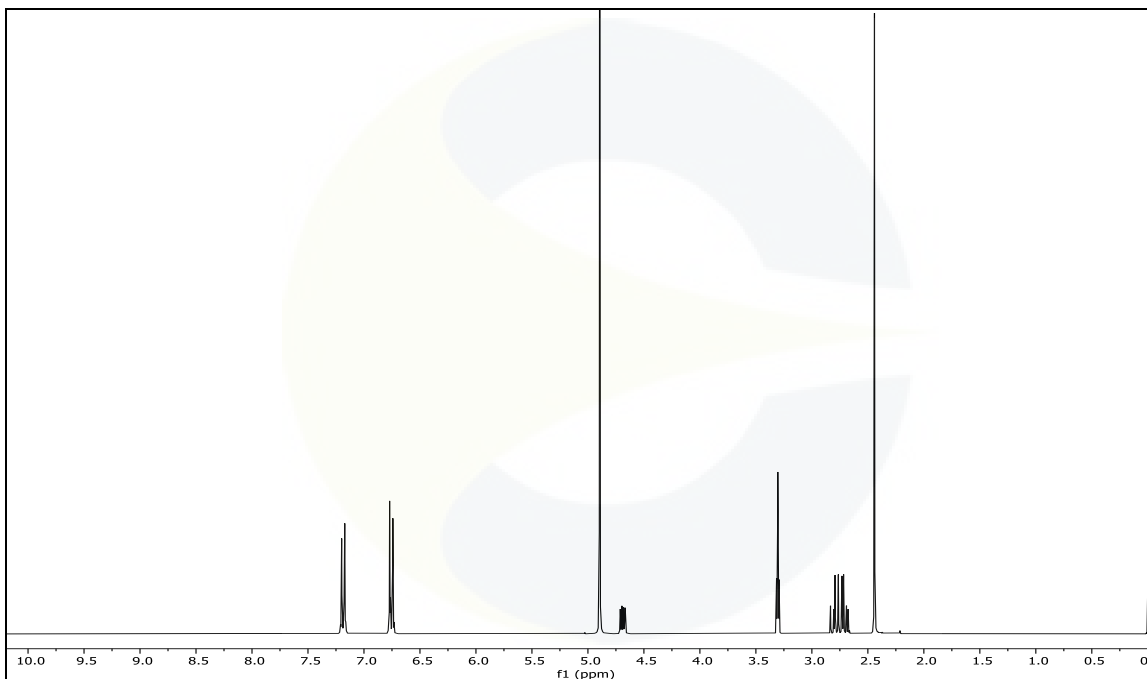


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MASS SPECTRUM OF SYNEPHRINE (CDXP-21-00136)



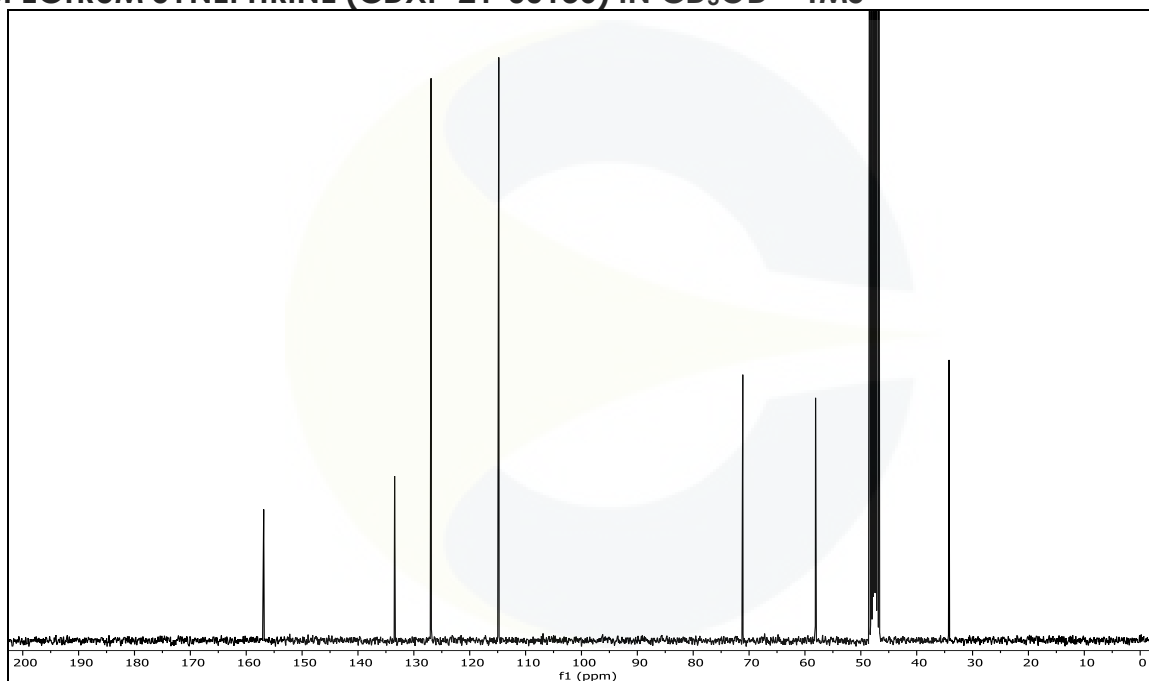
¹H-NMR SPECTRUM OF SYNEPHRINE (CDXP-21-00136) IN CD₃OD + TMS



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

¹³C-NMR SPECTRUM SYNEPHRINE (CDXP-21-00136) IN CD₃OD + TMS

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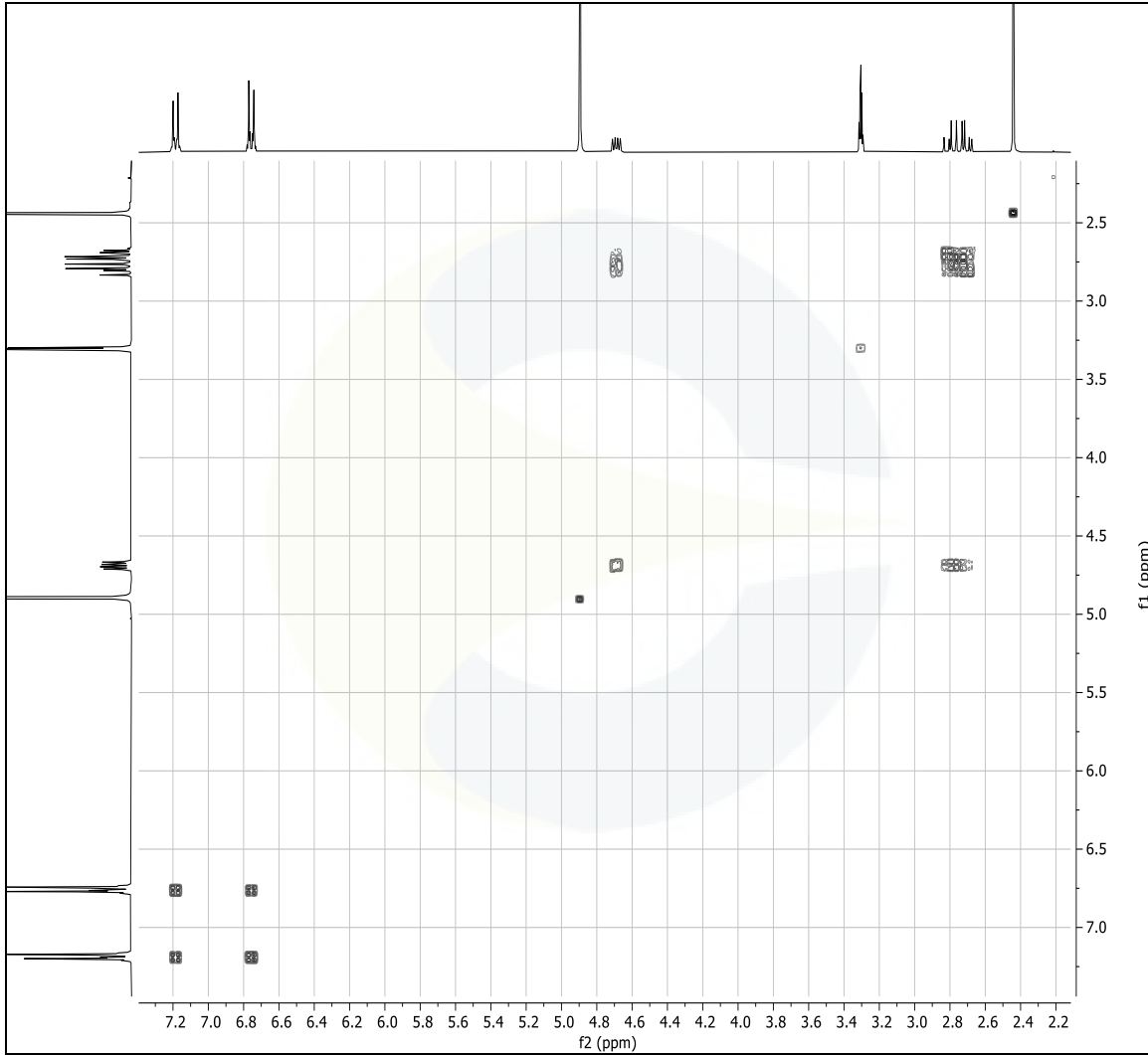
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COSY-NMR SPECTRUM OF SYNEPHRINE (CDXP-21-00136) IN CD₃OD + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/31/2021	New report

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