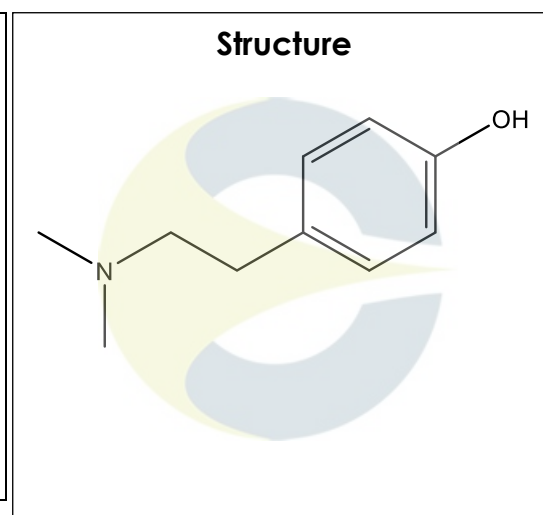


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<b>PRODUCT NAME</b>	Hordenine
<b>PART NUMBER</b>	00008334
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00008334-3220
<b>REPORT NUMBER</b>	CDXA-RSS-5095-02
<b>SAMPLE NUMBER</b>	CDXA-12-3220
<b>DATE OF SAMPLE</b>	05/24/2012
<b>DATE OF RE-EVALUATION</b>	04/19/2017 (1 <sup>st</sup> ); 01/05/2022 (2 <sup>nd</sup> )
<b>DATE OF REPORT</b>	01/20/2022



<b>CHEMICAL NAMES</b>	4-(2-Dimethylaminoethyl)phenol; p-(2-Dimethylaminoethyl)phenol; Anhaline; Cactine; N,N-Dimethyltyramine; Peyocactine
<b>CHEMICAL FORMULA</b>	C <sub>10</sub> H <sub>15</sub> NO
<b>MOLECULAR WEIGHT (MW)</b>	165.23
<b>CHEMICAL FAMILY</b>	Alkaloids
<b>CAS NUMBER</b>	[539-15-1]
<b>EC#(EINECS)</b>	208-710-4
<b>RTECS</b>	NA

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	95.1%
HPLC	0.700.10.2.METH22	≥ 90%	95.4%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	IPA – 0.3%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 95.1% IS BASED ON (100 - 0.3 SOLVENTS - 0.0 WATER) X 95.4% HPLC

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## STORAGE CONDITIONS

**STORAGE** -20 °C in a dry place.  
**EXPIRATION DATE** 01/2027 under the above conditions.

## ANALYTICAL CONDITIONS

**INSTRUMENT** AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL DETECTOR (CAD); AB-SCIEX 6600 TRIPLE TOF

**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

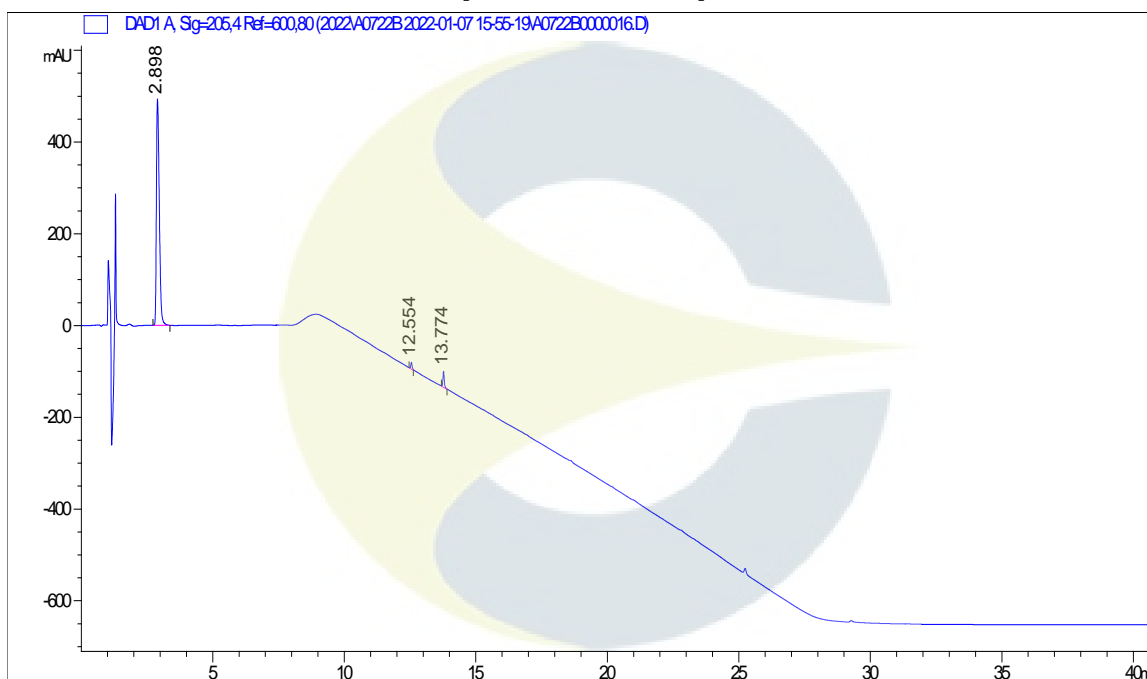
**FLOW RATE** 0.4 mL/minute

**INJECTION VOL.** 0.8 µL

**INJECTION CONC.** 1.0 mg/mL in Methanol

**DETECTION** 205 ± 2 nm

## HPLC CHROMATOGRAM OF HORDENINE (CDXA-12-3220)

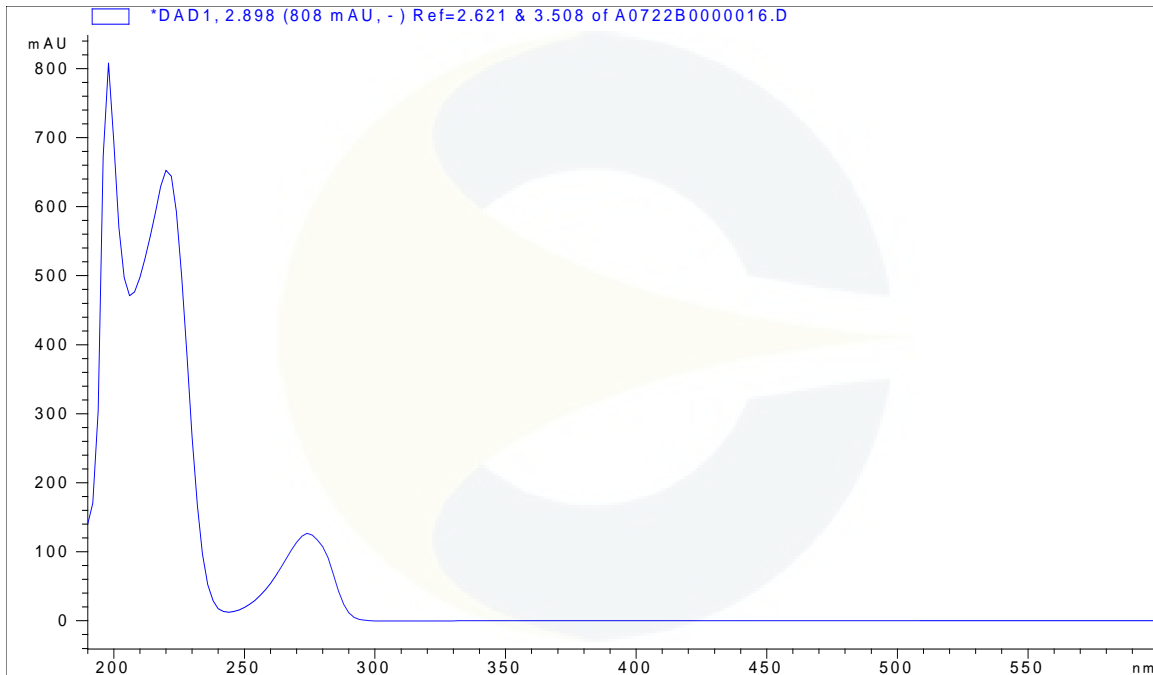


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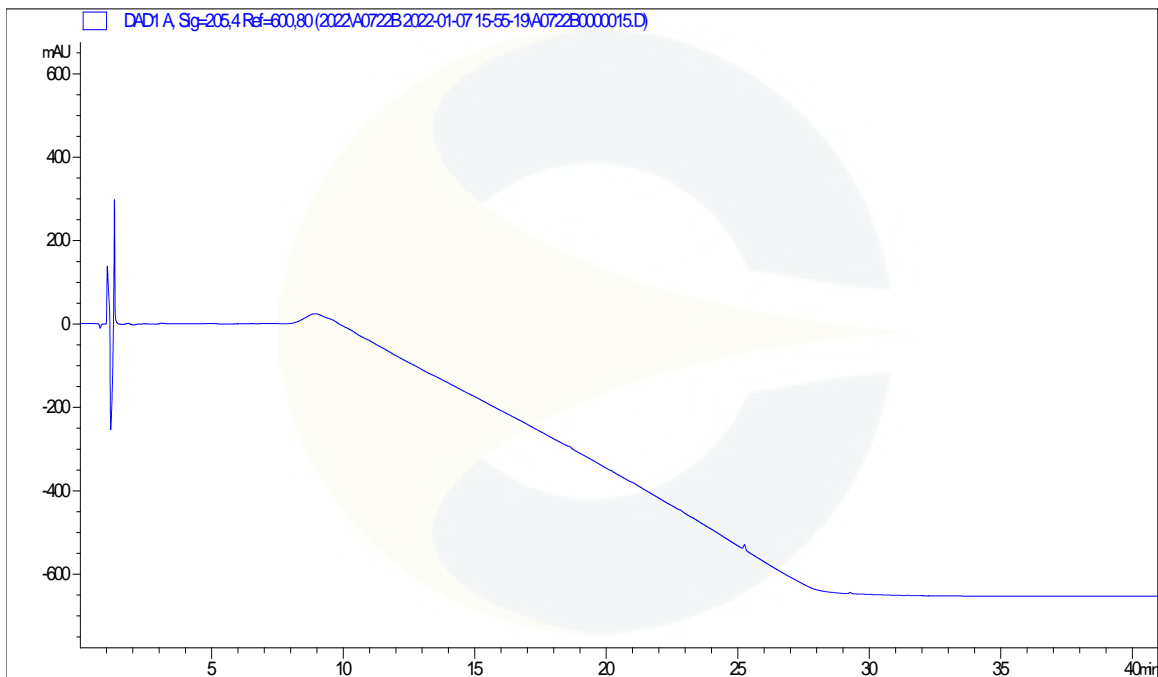
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## UV SPECTRUM AT RT = 2.9 MINUTES



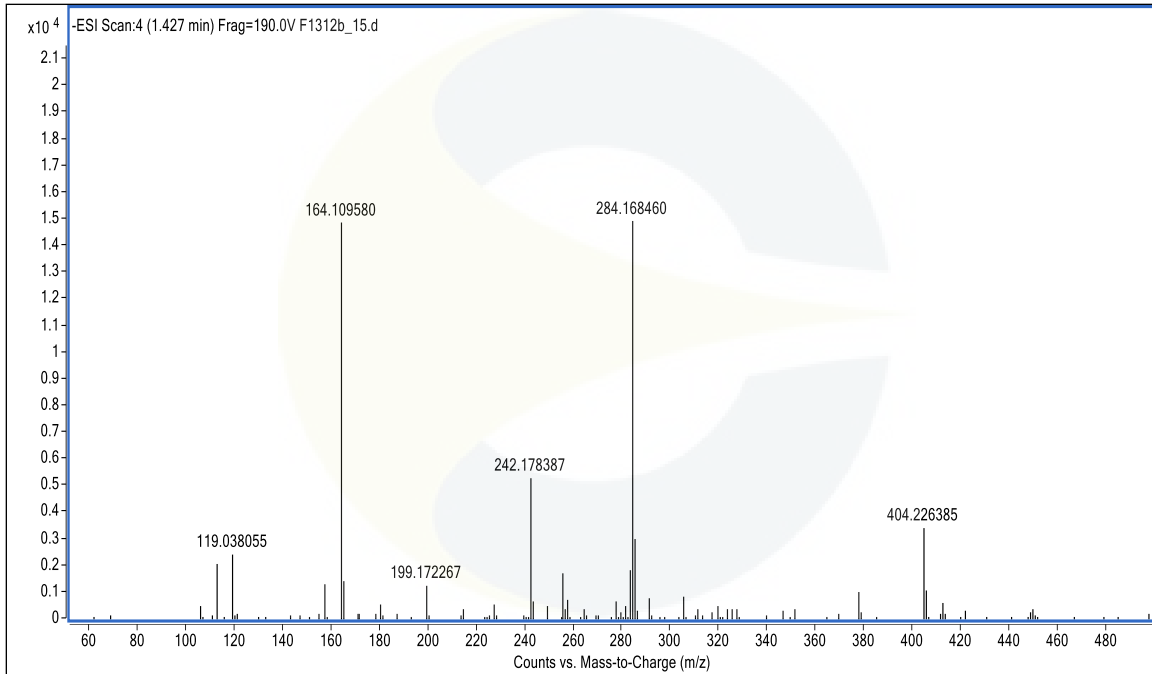
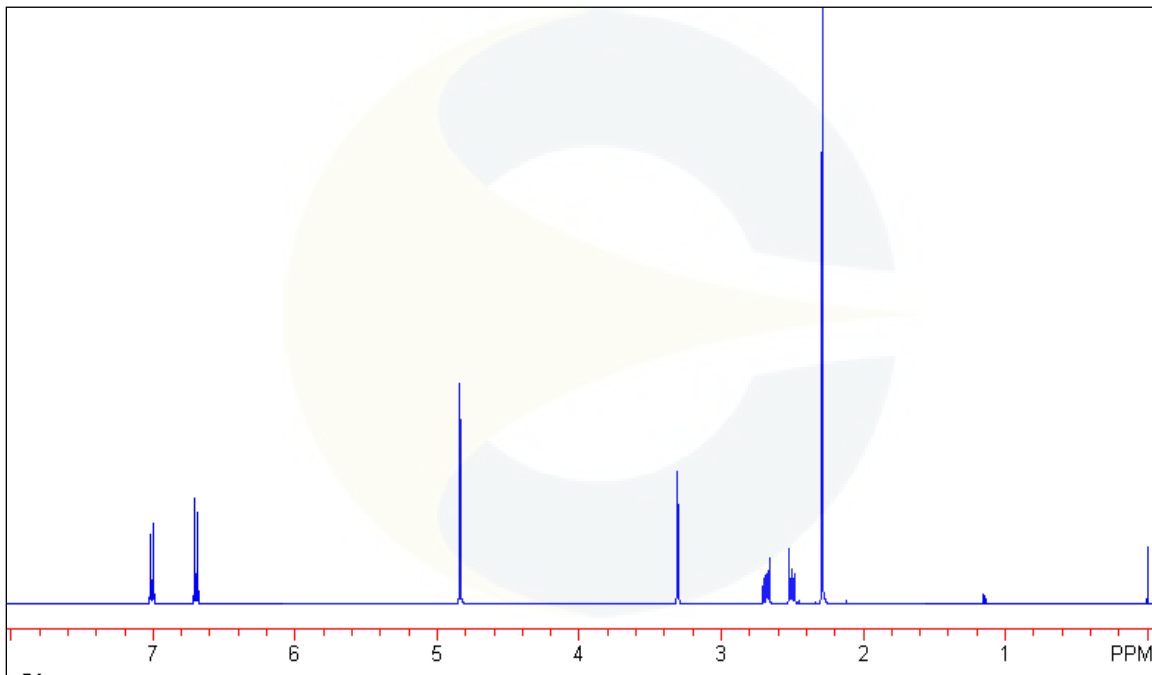
## HPLC CHROMATOGRAM OF DILUENT BLANK



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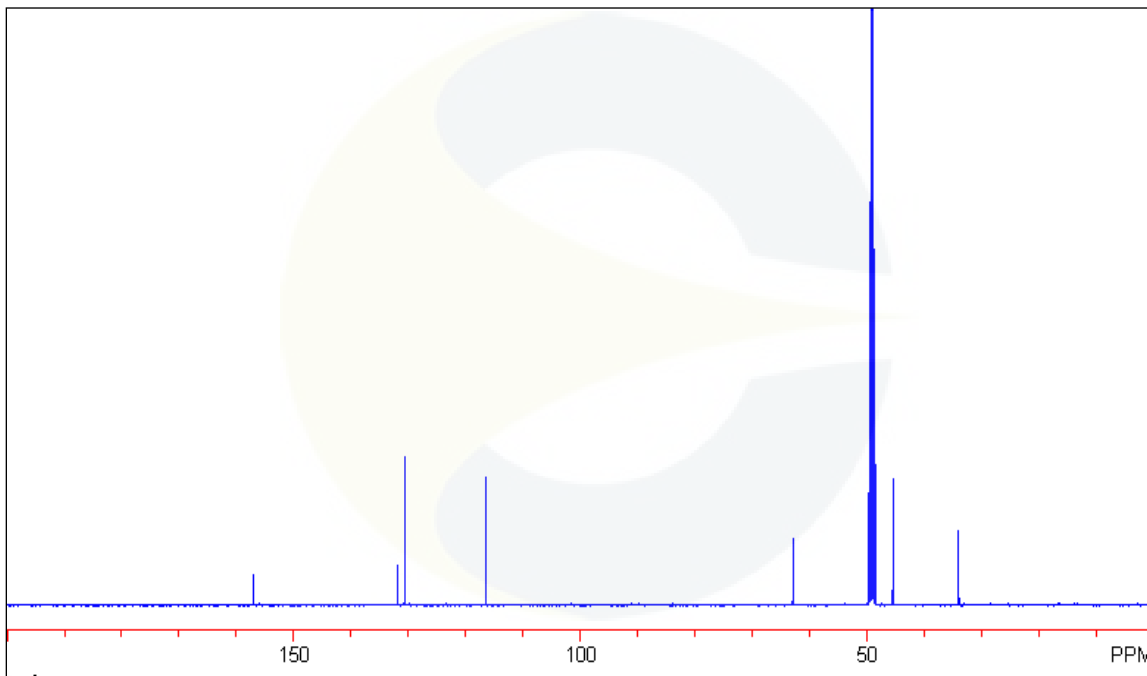
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**MASS SPECTRUM OF HORDENINE (CDXA-12-3220)****<sup>1</sup>H-NMR SPECTRUM OF HORDENINE (CDXA-12-3220) IN CDCl<sub>3</sub>**

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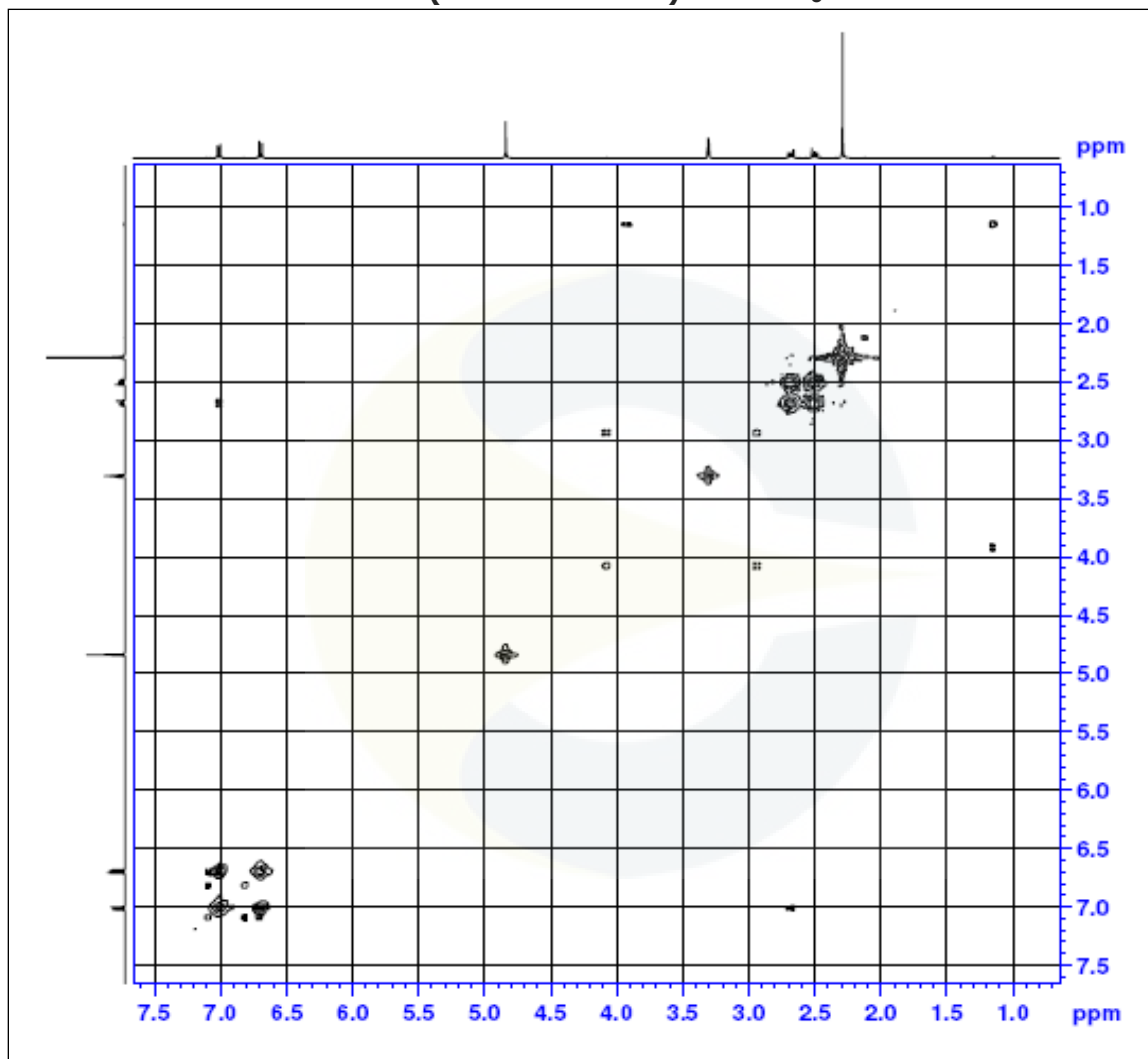
**<sup>13</sup>C-NMR SPECTRUM OF HORDENINE (CDXA-12-3220) IN CDCl<sub>3</sub>**



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**COSY-NMR SPECTRUM OF HORDENINE (CDXA-12-3220) IN CDCl<sub>3</sub>**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	07/25/2012	New report
01	05/10/2017	Passed re-evaluation by HPLC, KF. Updated expiration date, chemical names, analytical conditions, analytical chromatograms and results.
02	01/20/2022	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, results and chromatograms.

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