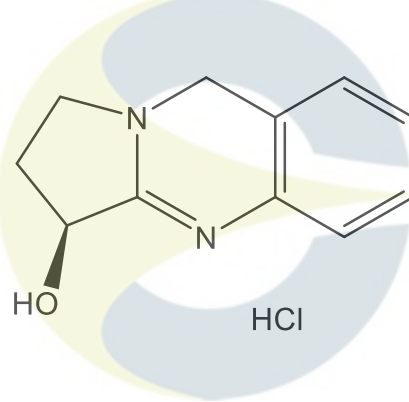


**Certificate of Analysis**

For Laboratory Use Only

<b>PRODUCT NAME</b>	Vasicine Hydrochloride	<div style="text-align: center;"> <b>Structure</b>   </div>
<b>PART NUMBER</b>	00022325	
<b>STANDARD TYPE</b>	Analytical Standard (AS)	
<b>LOT NUMBER</b>	00022325-002	
<b>REPORT NUMBER</b>	CDXA-RSS-8550-01	
<b>SAMPLE NUMBER</b>	CDXP-19-00205	
<b>DATE OF SAMPLE</b>	03/18/2019	
<b>DATE OF RE-EVALUATION</b>	02/06/2023	
<b>DATE OF REPORT</b>	02/14/2023	

<b>CHEMICAL NAMES</b>	(S)-1,2,3,9-tetrahydro-Pyrrolo[2,1-b]quinazolin-3-ol monohydrochloride; (-)-Peganine hydrochloride; (-)-Vasicine hydrochloride; Linarine hydrochloride; Peganine hydrochloride; Peganine monohydrochloride
<b>CHEMICAL FORMULA</b>	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O • HCl
<b>MOLECULAR WEIGHT (MW)</b>	224.69
<b>CHEMICAL FAMILY</b>	Alkaloids
<b>CAS NUMBER</b>	[7174-27-8]
<b>EC#(EINECS)</b>	683-132-7
<b>RTECS</b>	UY9454100

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
HPLC	0.700.10.2.METH22	≥ 75%	99.0%
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Appearance	NA	NA	Beige powder

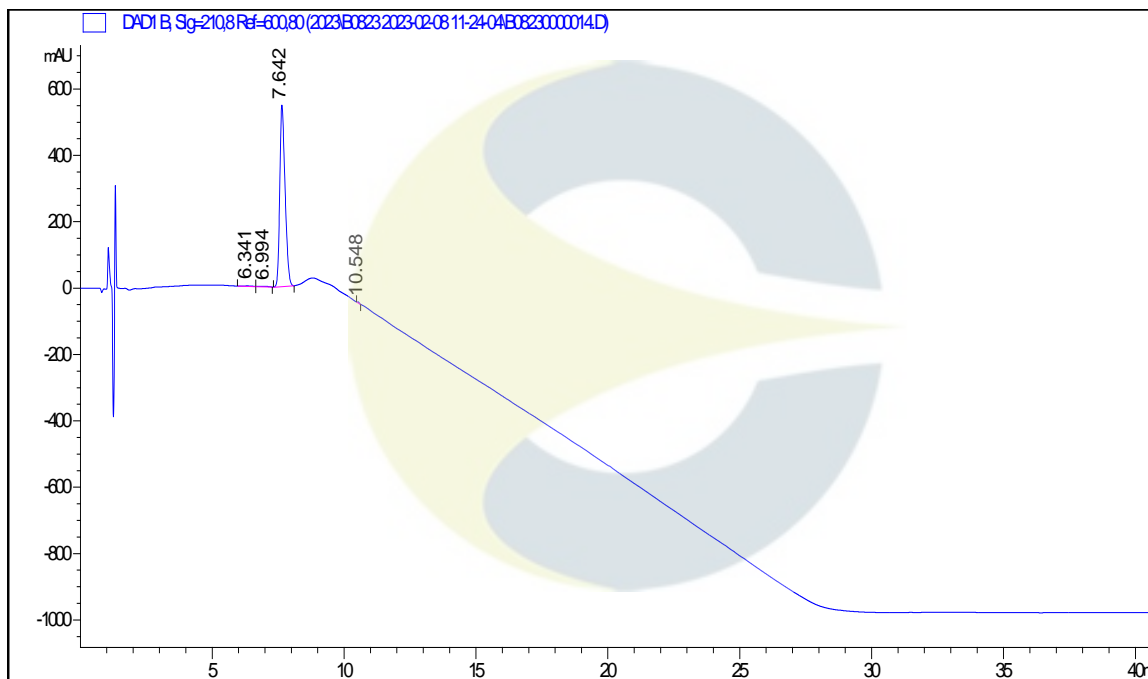
**STORAGE CONDITIONS**

<b>STORAGE</b>	-20 °C in a dry place.
<b>EXPIRATION DATE</b>	02/2028 under the above conditions.

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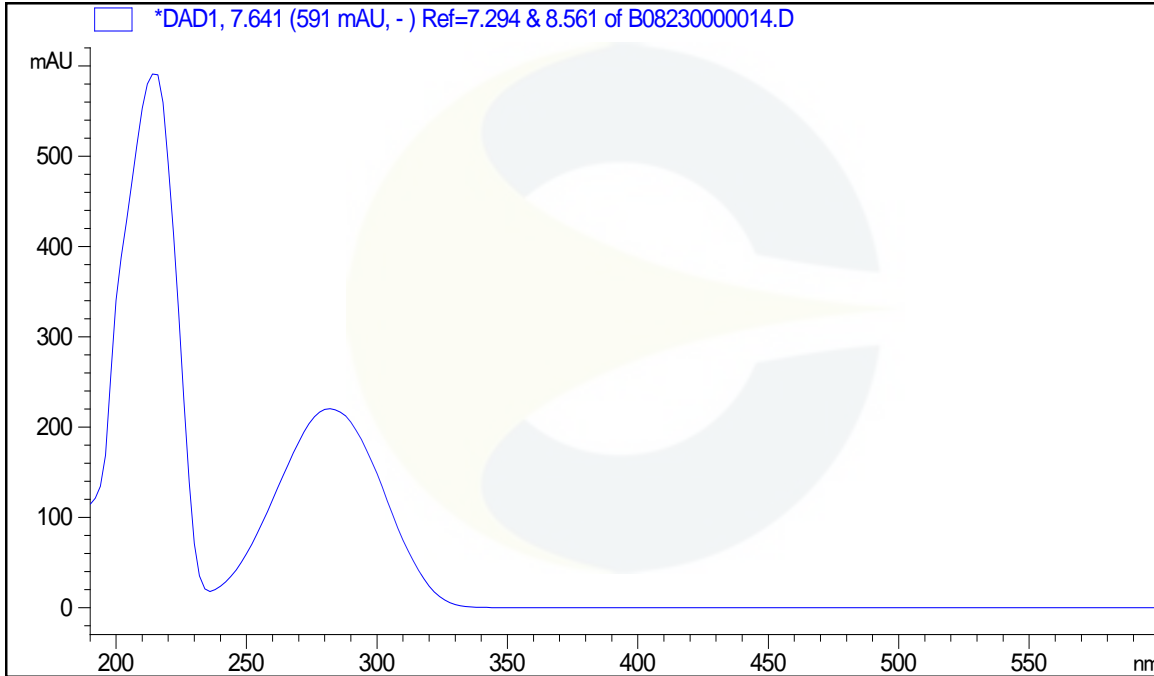
**Certificate of Analysis**
*For Laboratory Use Only*
**ANALYTICAL CONDITIONS**

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
<b>COLUMN</b>	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
<b>MOBILE PHASE</b>	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.
<b>COLUMN TEMP.</b>	60 °C
<b>FLOW RATE</b>	0.4 mL/minute
<b>INJECTION VOL.</b>	0.8 µL
<b>INJECTION CONC.</b>	1.0 mg/mL in Methanol
<b>DETECTION</b>	210 ± 4 nm

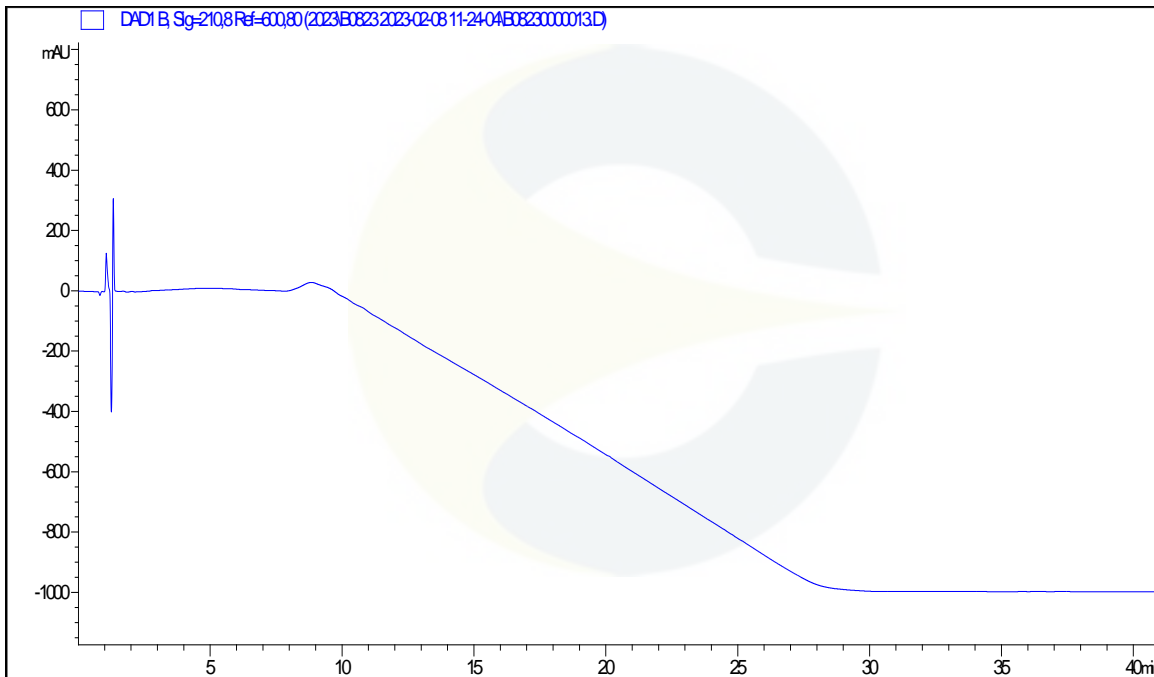
**HPLC CHROMATOGRAM OF VASICINE HYDROCHLORIDE (CDXP-19-00205)**


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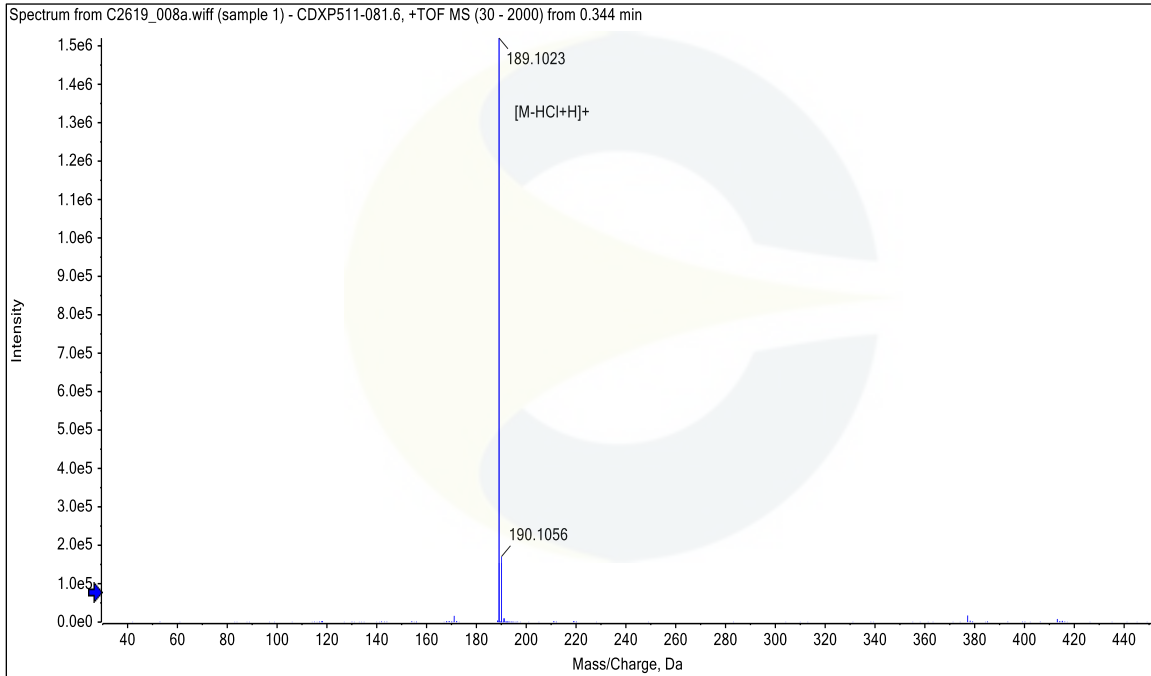
**UV SPECTRUM AT RT = 7.6 MINUTES**



**HPLC CHROMATOGRAM OF DILUENT BLANK**



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**MASS SPECTRUM OF VASICINE HYDROCHLORIDE (CDXP-19-00205)**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	04/05/2019	New report
01	02/14/2023	Passed re-evaluation by HPLC. Updated analytical conditions, chromatograms, and expiration date.

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