



CONFIDENTIAL

**SPECIMEN** 

# Certificate of Analysis

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PRODUCT NAME	Octopamine HCl	Structure	
PART NUMBER	00015046	511001010	
STANDARD TYPE	Primary (P)		
LOT NUMBER	00015046-55B	OH	
REPORT NUMBER	CDXA-RSS-014-03	NH <sub>2</sub>	
SAMPLE NUMBER	CDXA-11-0554		
DATE OF SAMPLE	08/11/2003	НСІ	
DATE OF RE-EVALUATION	10/09/2006(1st);01/26/2011(2nd); 05/29/2015 (3 <sup>rd</sup> ); 07/22/2019 (4 <sup>th</sup> )	HO	
DATE OF REPORT	08/20/2019		
CHEMICAL NAMES	(±)-p-Octopamaine hydrochloride; DL- hydrochloride; DL-Octopamine hydroc		
CHEMICAL FORMULA	$C_8H_{11}NO_2 \bullet HCI$		
MOLECULAR WEIGHT (MW)	189.64		
CHEMICAL FAMILY	Adrenergic amines		
CAS NUMBER	[770-05-8]		
EC#(EINECS)	212-216-4		
RTECS	NA		

### **ANALYTICAL RESULTS**

METHOD	SPECIFICATION	RESULT	
NA	NA	99.9%	
99.1-04-1.0000761	NA	99.9%	
99.1-CD-1.0-000122	Conforms to structure	Conforms to structure	
Direct Infusion, ESI (+)	Conforms	Conforms	
99.1-CD-4.0-000115	NA	ND	
Water 0.700.12.37		ND	
Appearance NA		White powder	
	NA 99.1-04-1.0000761 99.1-CD-1.0-000122 Direct Infusion, ESI (+) 99.1-CD-4.0-000115 0.700.12.37	NA NA   99.1-04-1.0000761 NA   99.1-CD-1.0-000122 Conforms to structure   Direct Infusion, ESI (+) Conforms   99.1-CD-4.0-000115 NA   0.700.12.37 NA	

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

### **STORAGE CONDITIONS**

### STORAGE

Room Temperature in a dry place.

### **EXPIRATION DATE**

07/2024 under the above conditions.

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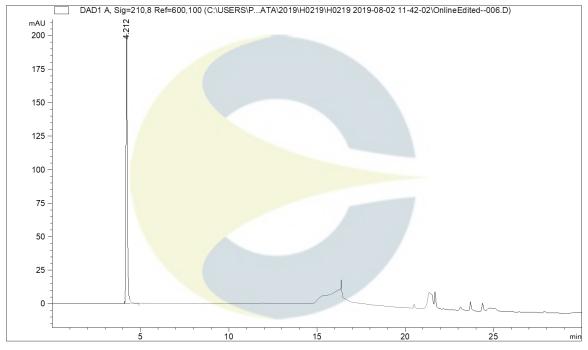
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# ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF (AVOGADRO)		
COLUMN	Phenomenex Synergi Hydro-RP, 250 x 4.6 mm, 4 µm particle size		
MOBILE PHASE	A – 10 mM Monobasic potassium phosphate (pH – 2.9) (aq), B - Acetonitrile; Isocratic 0% B for 10 minutes increasing to 30% B over 10 minutes. Hold at 30% B for 4 minutes. Return to 0% B over 5 minutes.		
COLUMN TEMP.	22 °C		
FLOW RATE	1.0 mL/minute		
INJECTION VOL.	0.5 μL		
INJECTION CONC.	1.3 mg/mL in high-purity water		
DETECTION	210 ± 4 nm		

### HPLC CHROMATOGRAM OF OCTOPAMINE HCL (CDXA-11-0554)



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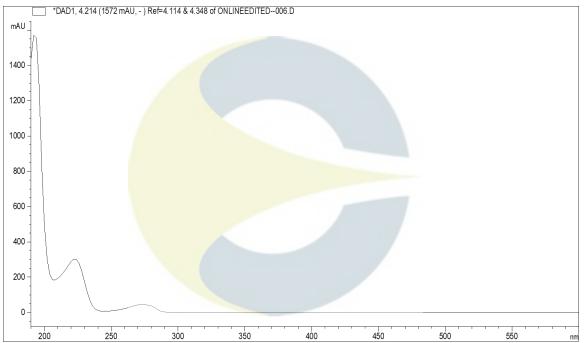
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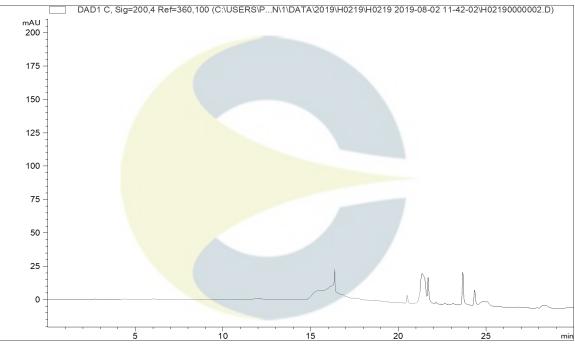


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### UV SPECTRUM AT RT = 4.2 MINUTES



### HPLC CHROMATOGRAM OF DILUENT BLANK



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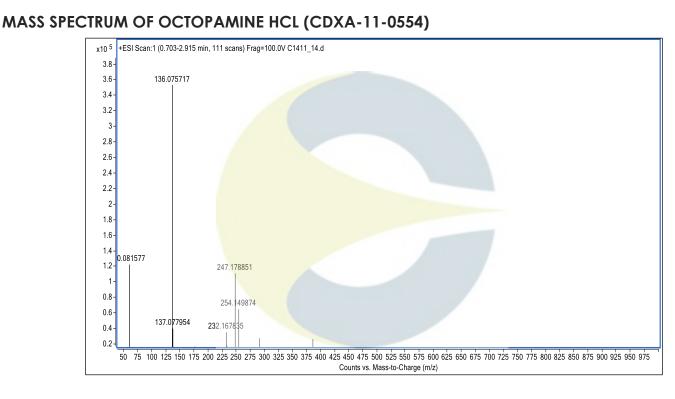
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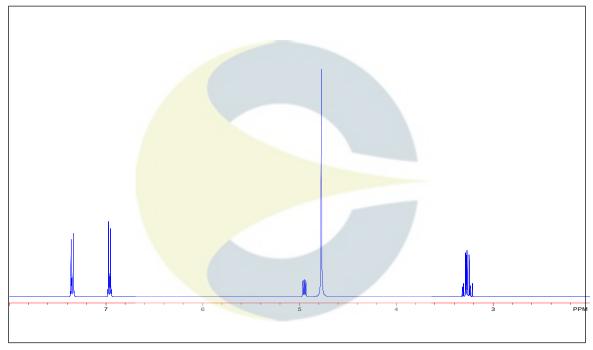


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## <sup>1</sup>H-NMR SPECTRUM OF OCTOPAMINE HCL (CDXA-11-0554) IN D<sub>2</sub>O



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# <sup>1</sup>H-NMR SPECTRUM OF OCTOPAMINE HCL (CDXA-11-0554) IN D<sub>2</sub>O

### **REVISION HISTORY**

<u>Revision History</u>	Date of Revision	Document/Changes
00	08/11/2003	New report and first re-evaluation
01	05/11/2011	New set of conditions and chromatograms for second re-evaluation
02	07/08/2015	Passed third re-evaluation by HPLC, KF. Updated expiration date, chemical names and melting point.
03	08/20/2019	Passed fourth re-evaluation by HPLC, KF. Updated expiration date, analytical method, conditions, chromatograms, and results.

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