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PRODUCT NAME Evodiamine

PART NUMBER 00005395

STANDARD TYPE Primary (P)

LOT NUMBER 00005395-4619

CDXA-RSS-5072-02 **REPORT NUMBER**

SAMPLE NUMBER CDXA-11-4619

DATE OF SAMPLE 08/12/2011

DATE OF RE-EVALUATION 09/03/2015 (1st); 04/15/2020 (2nd)

DATE OF REPORT 05/14/2020

CHEMICAL NAMES (13bS)-8,13,13b,14-Tetrahydro-14-methyl-indolo(2',3':3,4)pyrido[2,1-b]quinazolin-

5(7H)-one; (+)-Evodiamine

CHEMICAL FORMULA C₁₉H₁₇N₃O

MOLECULAR WEIGHT (MW) 303.36

CHEMICAL FAMILY Alkaloids

CAS NUMBER [518-17-2]

EC#(EINECS) 637-111-4

RTECS NM3454500

Structure

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.6%
HPLC	0.700.10.2.METH22	NA	99.8%
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 - 0.2%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 99.6% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 99.8% HPLC

STORAGE CONDITIONS

+4 °C in a dry place. **STORAGE**

EXPIRATION DATE 04/2025 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF

Phenomenex Luna C18(2) 150 x 2.00 mm, 5 μm particle size **COLUMN**

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

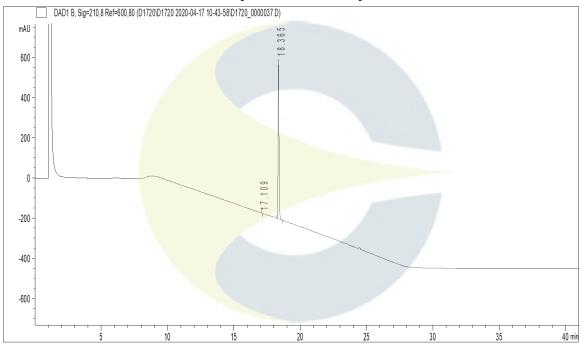
FLOW RATE 0.4 mL/minute

INJECTION VOL. $0.2 \mu L$

INJECTION CONC. 1.2 mg/mL in 1:1, Methanol: Dimethyl Sulfoxide

DETECTION $210 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF EVODIAMINE (CDXA-11-4619)



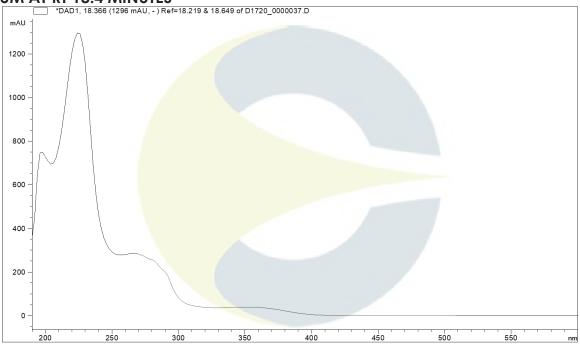




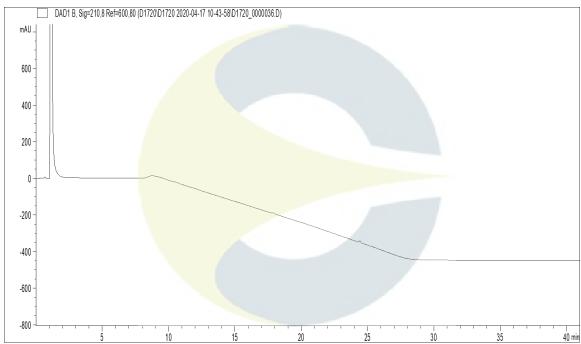


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UV SPECTRUM AT RT 18.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



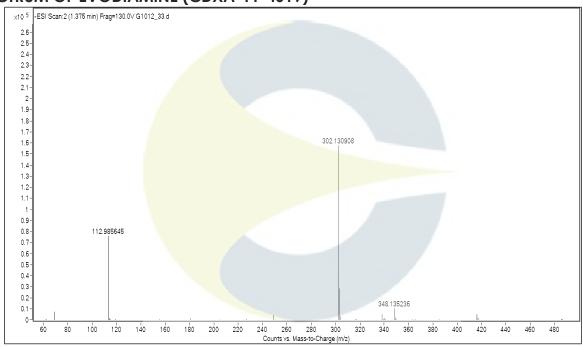




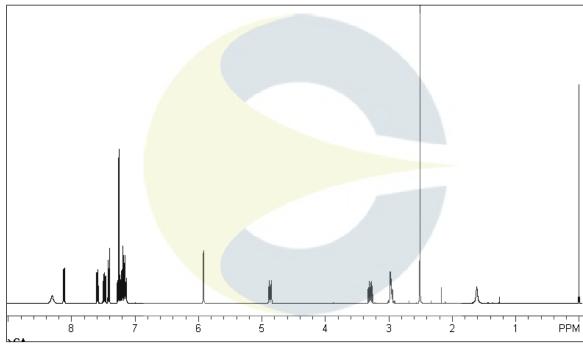


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MASS SPECTRUM OF EVODIAMINE (CDXA-11-4619)



¹H-NMR SPECTRUM OF EVODIAMINE (CDXA-11-4619) IN CDCl₃



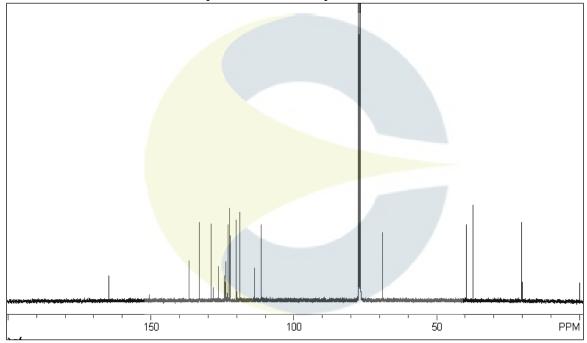






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¹³C-NMR SPECTRUM OF EVODIAMINE (CDXA-11-4619) IN CDCI₃



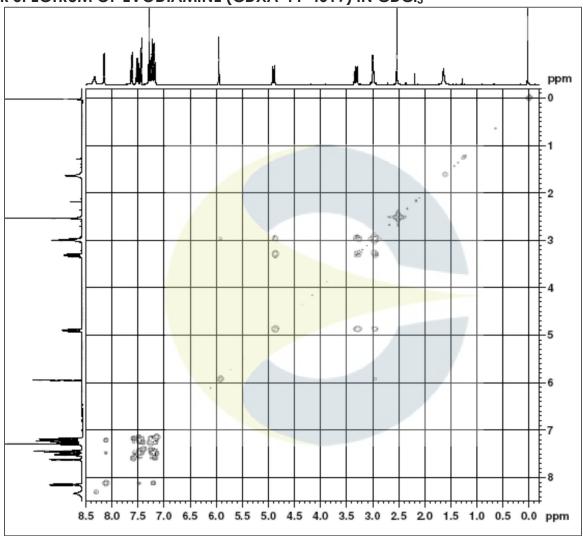






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COSY-NMR SPECTRUM OF EVODIAMINE (CDXA-11-4619) IN CDCI₃



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	Document/Changes
00	08/03/2012	New report
01	09/21/2015	Passed re-evaluation by HPLC, KF. Updated expiration date, chemical names and RTECS number.
02	05/14/2020	Passed re-evaluation by HPLC and KF. Updated expiration date, EINECS number, analytical conditions, analytical results, chromatograms, and removed melting point.