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**PRODUCT NAME** Aristolochic acid A

**PART NUMBER** 00011002

STANDARD TYPE Primary (P)

**LOT NUMBER** 00011002-106

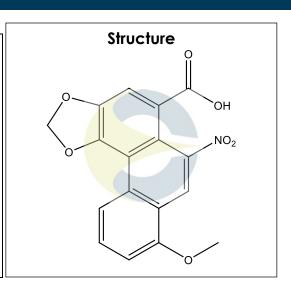
**REPORT NUMBER** CDXA-RSS-6149-01

**SAMPLE NUMBER** CDXA-14-3867

**DATE OF SAMPLE** 06/16/2014

**DATE OF RE-EVALUATION** 03/26/2019

**DATE OF REPORT** 04/16/2019



**CHEMICAL NAMES** 8-Methoxy-6-nitro-phenanthro(3,4-d)-1,3-dioxole-5-carboxylic acid; Aristolochic

acid 1: Aristolochic acid

CHEMICAL FORMULA C17H11NO7

MOLECULAR WEIGHT (MW) 341.27

**CHEMICAL FAMILY** Phenanthrenes

**CAS NUMBER** [313-67-7]

EC#(EINECS) 206-238-3

**RTECS** CF3325000

#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	97.6%
HPLC	99.1-04-1.0-000684	NA	97.6%
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-7.0-0000115	NA	ND
Water	99.1-04-10.0-000094	NA	ND
Appearance	NA	NA	Yellow powder

97.6% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 97.6% HPLC ADJUSTED PURITY:

## STORAGE CONDITIONS

**STORAGE** +4 °C in a dry place.

**EXPIRATION DATE** 03/2024 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.

60 °C **COLUMN TEMP.** 

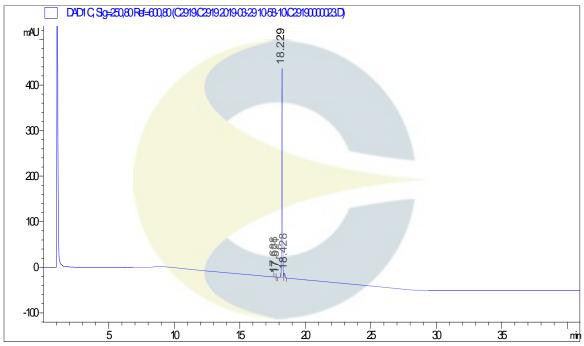
**FLOW RATE** 0.4 mL/minute

INJECTION VOL. 0.2 uL

0.97 mg/mL in Ethanol: Dimethyl sulfoxide (2:1) INJECTION CONC.

**DETECTION**  $250 \pm 40 \text{ nm}$ 

## HPLC CHROMATOGRAM OF ARISTOLOCHIC ACID A (CDXA-14-3867)



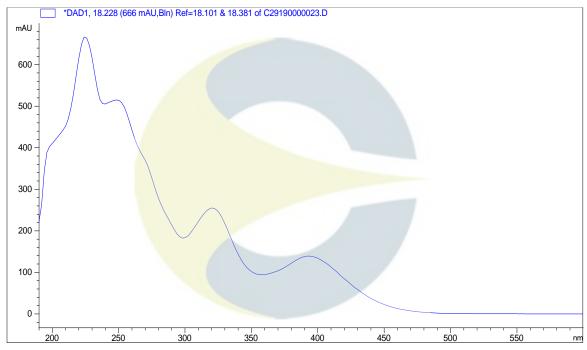




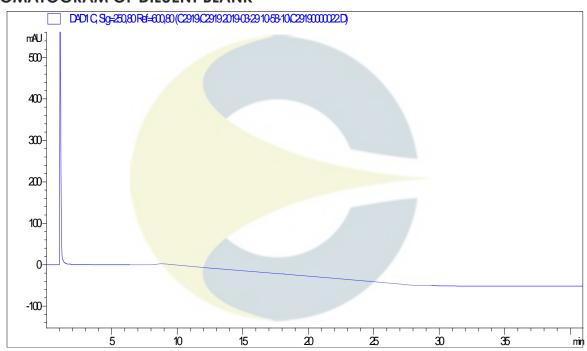


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#### **UV SPECTRUM AT RT = 18.2 MINUTES**



#### HPLC CHROMATOGRAM OF DILUENT BLANK



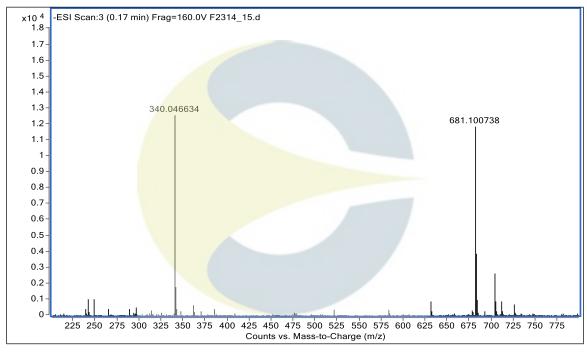




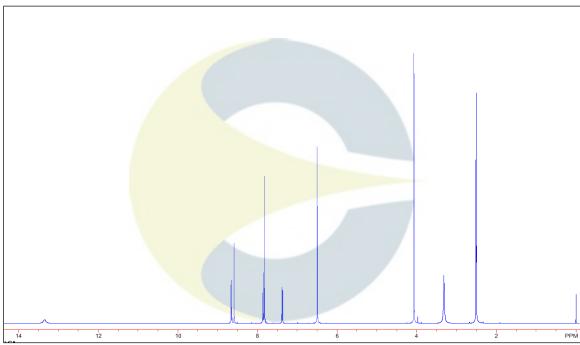


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### MASS SPECTRUM OF ARISTOLOCHIC ACID A (CDXA-14-3867)



# 1H-NMR SPECTRUM OF ARISTOLOCHIC ACID A (CDXA-14-3867) IN DMSO-d6



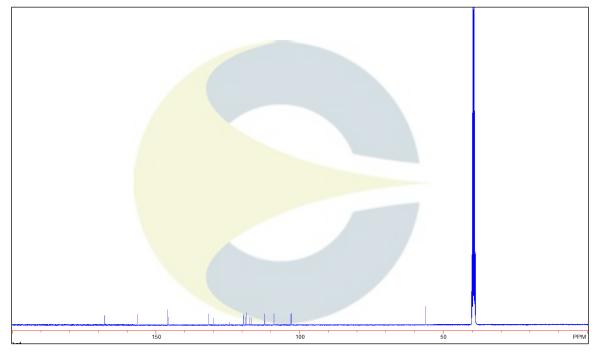






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# 13C-NMR SPECTRUM OF ARISTOLOCHIC ACID A (CDXA-14-3867) IN DMSO-d6



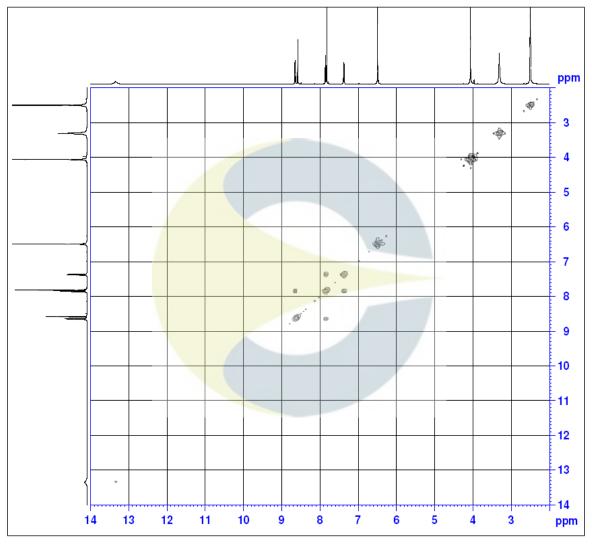






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### COSY-NMR SPECTRUM OF ARISTOLOCHIC ACID A (CDXA-14-3867) IN DMSO-d6



#### **REVISION HISTORY**

**Revision History** <u>Date of Revision</u> <u>Document/Changes</u>

OO India Contact: 07/01/2014 New report Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444.

O1 Email: customerservice@lifetechindi/alcon/20disde: www.lifetechindi/ebifal passed reevaluation by HPLC and KFT. Updated expiration date, analytical results, analytical method, analytical conditions, and chromatograms. Removed melting point.

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10005 MUIRLANDS BLVD., SUITE G, IRVINE, CA 92618 | T: +1 949-419-0288 | F: +1 949-419-0294 | WWW.CHROMADEX.COM