



CONFIDENTIAL

## **SPECIMEN**

# Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	(+,-)-14-epi-Triptolide	Structure
PART NUMBER	00020481	o.
STANDARD TYPE	Primary (P)	
LOT NUMBER	00020481-2126	
REPORT NUMBER	CDXA-RSS-3569-02	
SAMPLE NUMBER	CDXA-09-2126	
DATE OF SAMPLE	06/23/2009	
DATE OF RE-EVALUATION	06/04/2014 (1st); 03/20/2019 (2nd)	
DATE OF REPORT	04/12/2019	
CHEMICAL NAMES		bR)-3b,4,4a,6,6a,7a,7b,8b,9,10-Decahy yl)-trisoxireno(4b,5:6,7:8a,9)phenanthro de; (±)-14-Epitriptolide

CHEMICAL FORMULA	$C_{20}H_{24}O_{6}$
MOLECULAR WEIGHT (MW)	360.40
CHEMICAL FAMILY	Terpenes
CAS NUMBER	[73543-06-3]
EC#(EINECS)	NA
RTECS	NA

#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	94.9%
HPLC	99.1-04-1.0-000684	NA	95.3%
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-3.0-000115	NA	Ethanol – 0.2% Dichloromethane – 0.2%
Water	99.1-04-10.0-000094	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 94.9% IS BASED ON (100 - 0.4 SOLVENTS - 0.0 WATER) X 95.3% HPLC

#### STORAGE CONDITIONS

**STORAGE** -20 °C in a dry place.

EXPIRATION DATE

03/2024 under the above conditions.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

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

 India Contact:
 Life Technologies (India) Pvt. Ltd.

 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA).
 P

 Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
 P

 Email: customerservice@lifetechindia.com
 Website: www.lifetechindia.com





CONFIDENTIAL

## **SPECIMEN**

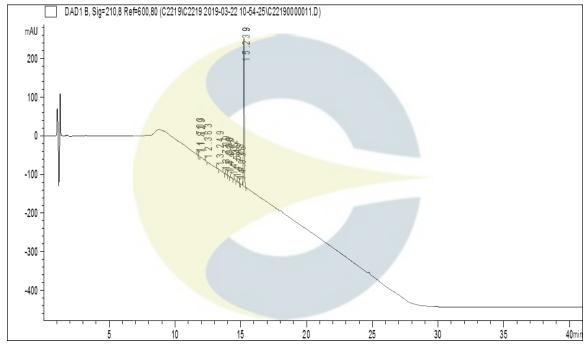
# Certificate of Analysis

For Laboratory Use Only

### ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA	
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.	0.4 μL	
INJECTION CONC.	1.1 mg/mL in Methanol	
DETECTION	210 ± 4 nm	

### HPLC CHROMATOGRAM OF (+,-)-14-EPI-TRIPTOLIDE (CDXA-09-2126)





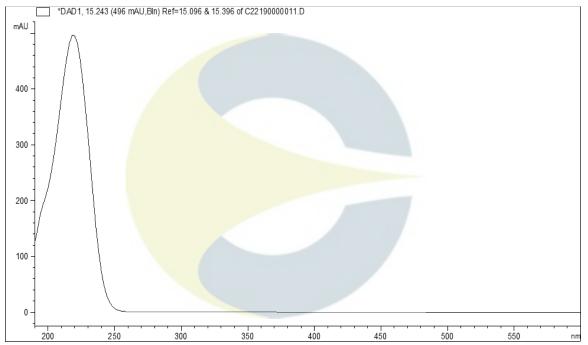


For Laboratory Use Only

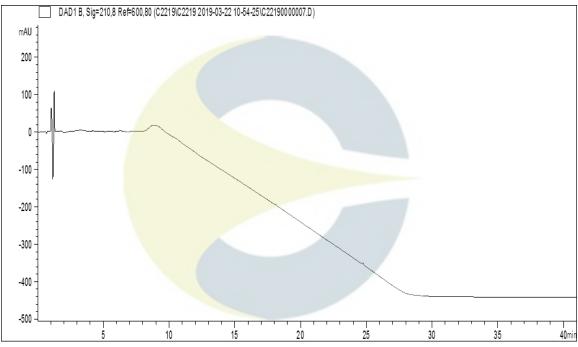
## **SPECIMEN**

Certificate of Analysis

#### UV SPECTRUM AT RT = 15.2 MINUTES



### HPLC CHROMATOGRAM OF DILUENT BLANK







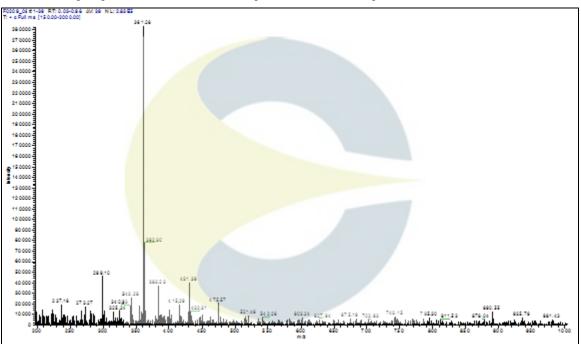
CONFIDENTIAL

For Laboratory Use Only

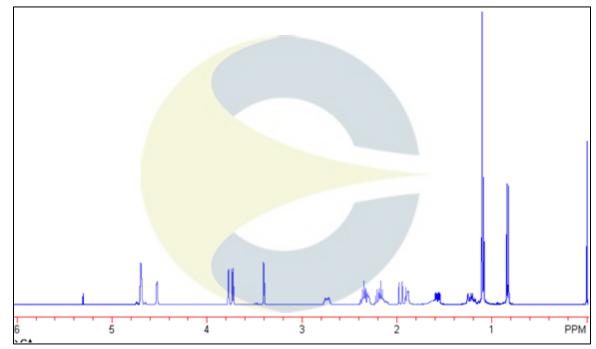
**SPECIMEN** 

# Certificate of Analysis

### MASS SPECTRUM OF (+,-)-14-EPI-TRIPTOLIDE (CDXA-09-2126)



### <sup>1</sup>H-NMR SPECTRUM OF (+,-)-14-EPI-TRIPTOLIDE (CDXA-09-2126) IN CDCl<sub>3</sub>







## **SPECIMEN**

# Certificate of Analysis

For Laboratory Use Only

#### **REVISION HISTORY**

<u>Revision History</u>	Date of Revision	Document/Changes
00	07/13/2009	New report
01	06/06/2014	Passed re-evaluation. Updated chemical name, CAS#, chemical formula and expiration date.
02	04/12/2019	Material passed re-evaluation. Updated chemical names, analytical results, analytical conditions, chromatograms, and expiration date. Removed melting point.