





Certificate of Analysis

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PRODUCT NAMEBisdemethoxycurcumin

PART NUMBER 00004231

STANDARD TYPE Primary (P)

LOT NUMBER 00004231-211

REPORT NUMBER CDXA-RSS-4726-02

SAMPLE NUMBER CDXA-11-4903

DATE OF SAMPLE 08/31/2011

DATE OF RE-EVALUATION 08/20/2015 (1st); 01/28/2020 (2nd)

DATE OF REPORT 02/07/2020

CHEMICAL NAMES (1E,6E)-1,7-Bis(4-hydroxyphenyl)-1,6-heptadiene-3,5-dione; Curcumin III;

Didemethoxycurcumin

CHEMICAL FORMULA C19H16O4

MOLECULAR WEIGHT (MW) 308.33

CHEMICAL FAMILY Phenols

CAS NUMBER [33171-05-0]

EC#(EINECS) NA

RTECS NA

Structure

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	Adjusted Purity NA		99.7%	
HPLC	0.700.10.2.METH22	NA	99.9%	
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure	
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms Acetone – 0.2%	
Residual Solvent	99.1-CD-5.0-000115	NA		
Water	Water 0.700.12.37		ND	
Appearance NA		NA Orange powder		

ADJUSTED PURITY: 99.7% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 01/2025 under the above conditions.







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ANALYTICAL CONDITIONS

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

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

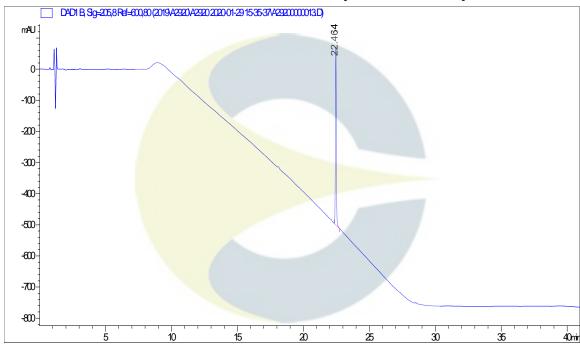
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.2 μL

INJECTION CONC. 0.92 mg/mL in Methanol

DETECTION $205 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF BISDEMETHOXYCURCUMIN (CDXA-11-4903)





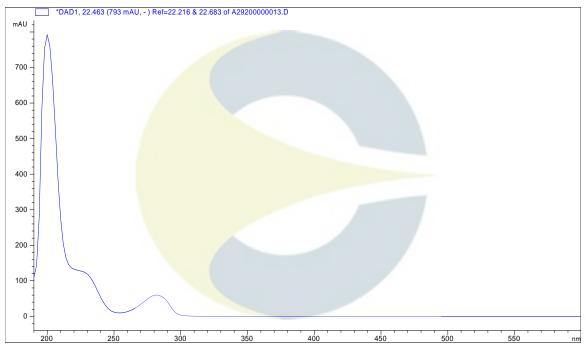




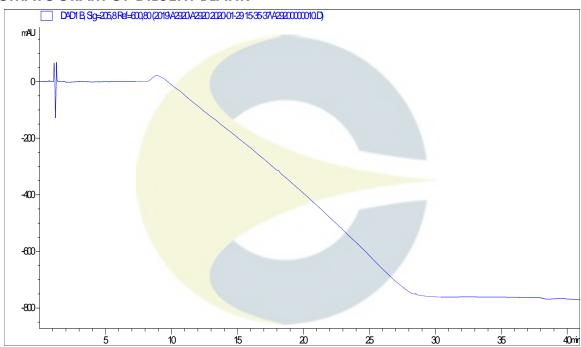
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UV SPECTRUM AT RT = 22. 5MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





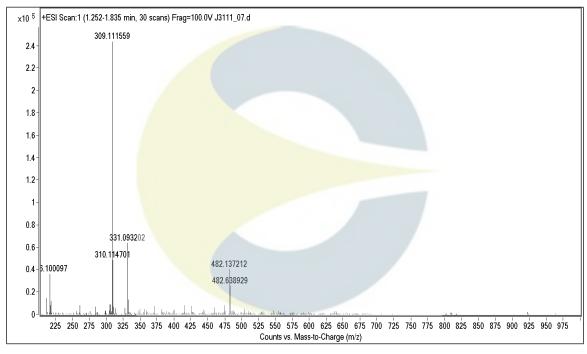




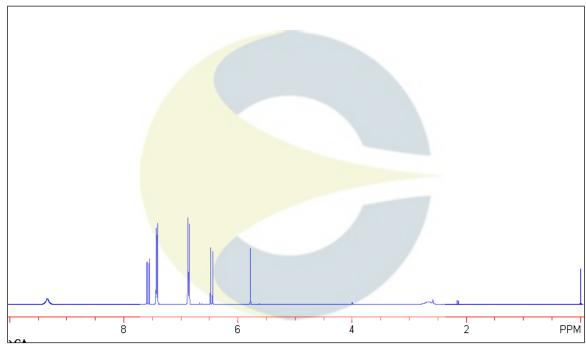
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MASS SPECTRUM OF BISDEMETHOXYCURCUMIN (CDXA-11-4903)



¹H-NMR SPECTRUM OF BISDEMETHOXYCURCUMIN (CDXA-11-4903) IN CDCl₃ + DMSO-d₀





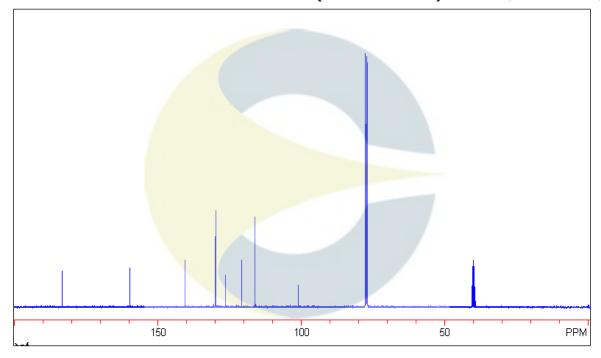




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13C-NMR SPECTRUM OF BISDEMETHOXYCURCUMIN (CDXA-11-4903) IN CDCl₃ + DMSO-d₆





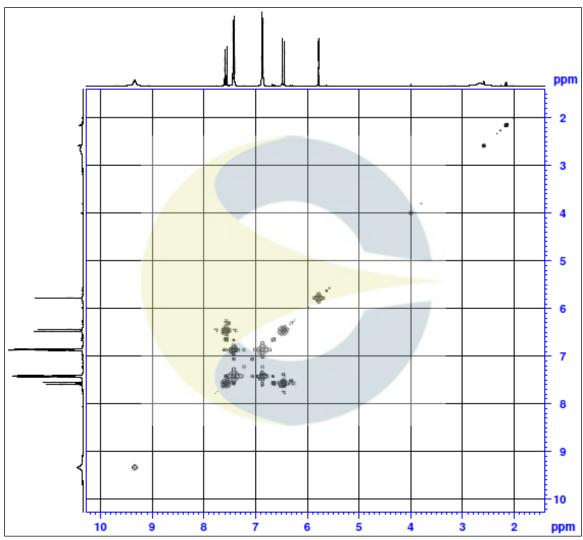




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COSY-NMR SPECTRUM OF BISDEMETHOXYCURCUMIN (CDXA-11-4903) IN CDCI₃ + DMSO-d₆



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	11/02/2011	New report
01	09/15/2015	Passed re-evaluation by HPLC, KF. Updated expiration date and product name.
02	02/07/2020	Passed re-eval by HPLC, KF. Updated expiation date, analytical results, analytical method, analytical conditions, and chromatograms. Removed melting point.