





SPECIMEN

Certificate of Analysis

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PRODUCT NAME 10-Gingerol

PART NUMBER 00007162

STANDARD TYPE Primary (P)

LOT NUMBER 00007162-7798

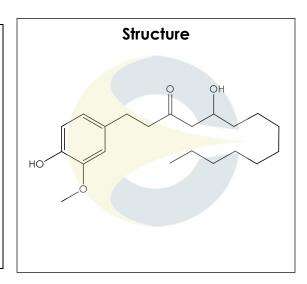
REPORT NUMBER CDXA-RSS-4276-02

SAMPLE NUMBER CDXA-10-7798

DATE OF SAMPLE 12/20/2010

DATE OF RE-EVALUATION 04/23/2015 (1st); 01/29/2020 (2nd)

DATE OF REPORT 03/12/2020



CHEMICAL NAMES 5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-tetradecanone

CHEMICAL FORMULA C₂₁H₃₄O₄

MOLECULAR WEIGHT (MW) 350.49

CHEMICAL FAMILY Phenolic acids

CAS NUMBER [107257-18-1]

EC#(EINECS) NA
RTECS NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	NA	97.3%	
HPLC	See Below	NA	97.3%	
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-4.0-000115	NA	ND	
Water	Water 0.700.12.37		ND	
Appearance NA		NA	White powder	

ADJUSTED PURITY: 97.3% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 97.3% HPLC

STORAGE CONDITIONS

STORAGE -20 °C 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 – 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

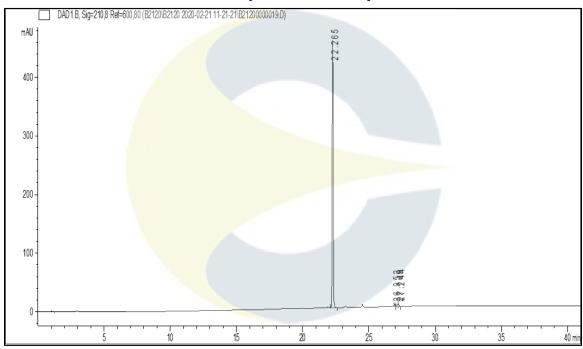
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.4 μL

INJECTION CONC. 1.0 mg/mL in Methanol

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

HPLC CHROMATOGRAM OF 10-GINGEROL (CDXA-10-7798)





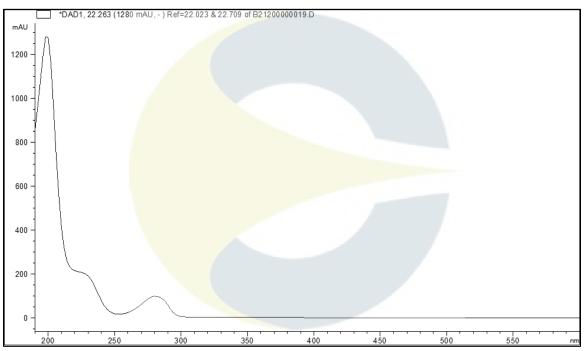




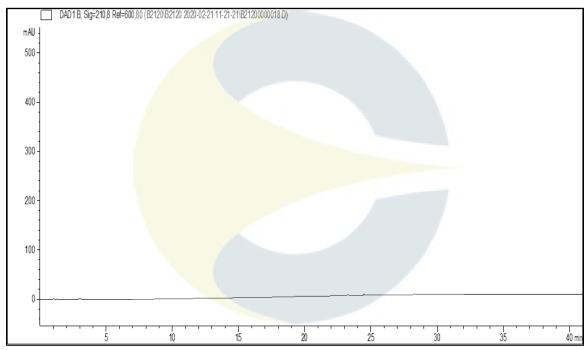
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UV SPECTRUM AT RT = 22.3 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





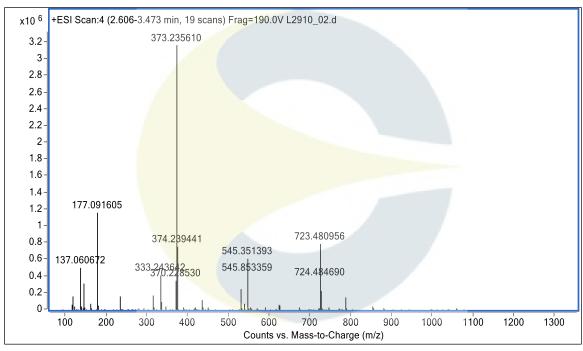




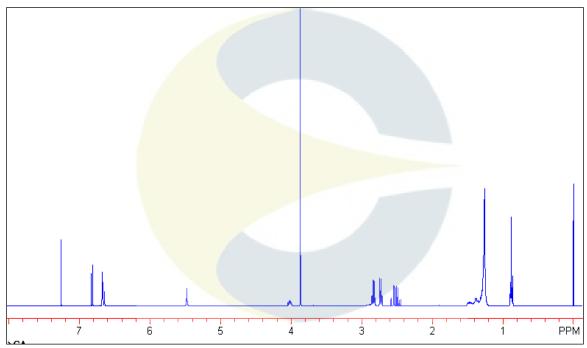
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MASS SPECTRUM OF 10-GINGEROL (CDXA-10-7798)



¹H-NMR SPECTRUM OF 10-GINGEROL (CDXA-10-7798) IN CDCl₃







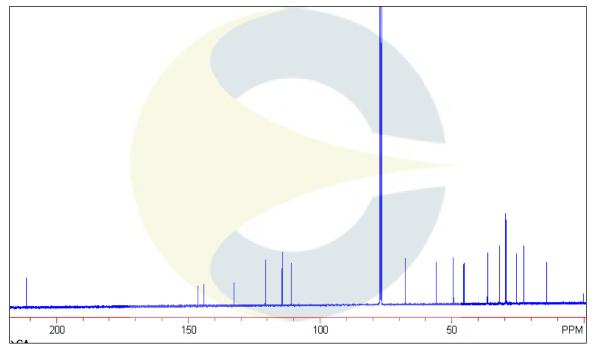


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¹³C-NMR SPECTRUM OF 10-GINGEROL (CDXA-10-7798) IN CDCl₃



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	01/21/2011	New report
01	05/07/2015	Passed re-evaluation by HPLC. Updated expiration date and chemical names.
02	03/12/2020	Passed re-evaluation by HPLC and water content. Removed melting point. Updated expiration date, Results, Analytical Conditions, chromatograms and UV spectrum.