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PRODUCT NAME 6-Shogaol

PART NUMBER 00019211

STANDARD TYPE Primary (P)

LOT NUMBER 00019211-141

REPORT NUMBER CDXA-RSS-7168-01

SAMPLE NUMBER CDXA-16-006713

DATE OF SAMPLE 05/23/2016

DATE OF RE-EVALUATION 06/30/2020

DATE OF REPORT 08/06/2020

(4E)-1-(4-Hydroxy-3-methoxyphenyl)-4-decen-3-one; (E)-[6]-Shogaol; trans-6-

CHEMICAL NAMES Shogaol

CHEMICAL FORMULA C17H24O3

MOLECULAR WEIGHT (MW) 276.37

CHEMICAL FAMILY Phenols

CAS NUMBER [23513-13-5]

EC#(EINECS) NA

RTECS NA

Structure

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.1%
HPLC	0.700.10.2.METH22	NA	99.9%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	Heptane – 0.2%
Water	0.700.12.37	NA	0.6%
Appearance	NA	NA	Colorless oil

ADJUSTED PURITY: 99.1% IS BASED ON (100 - 0.2 SOLVENTS - 0.6 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE -20 °C in a dry place.

EXPIRATION DATE 06/2025 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

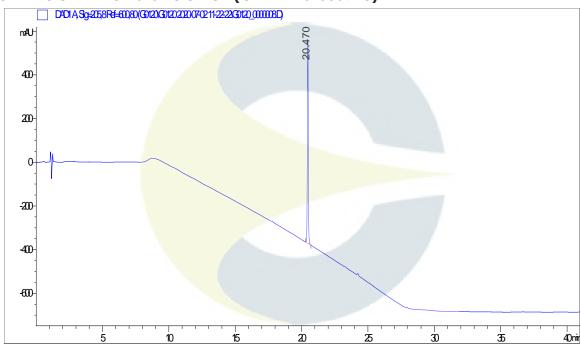
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.1 μL

INJECTION CONC. 2.74 mg/mL in Methanol

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

HPLC CHROMATOGRAM OF 6-SHOGAOL (CDXA-16-006713)



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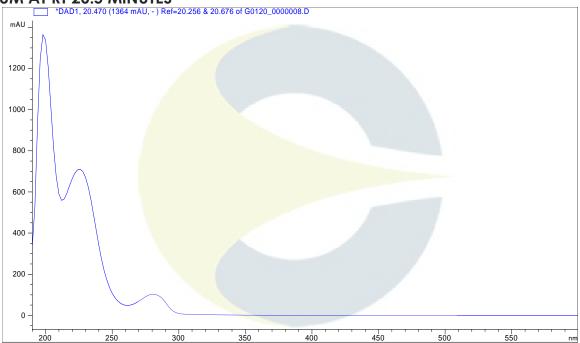




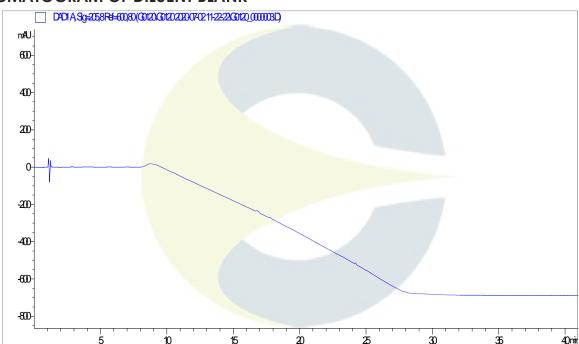
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UV SPECTRUM AT RT 20.5 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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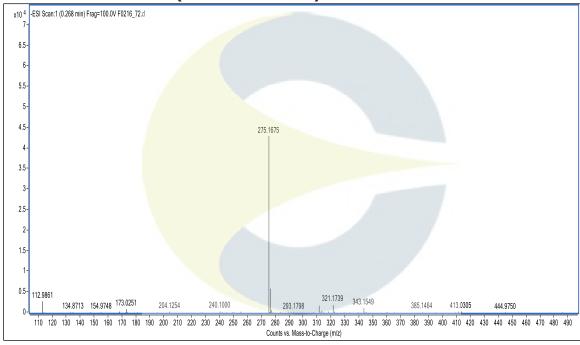




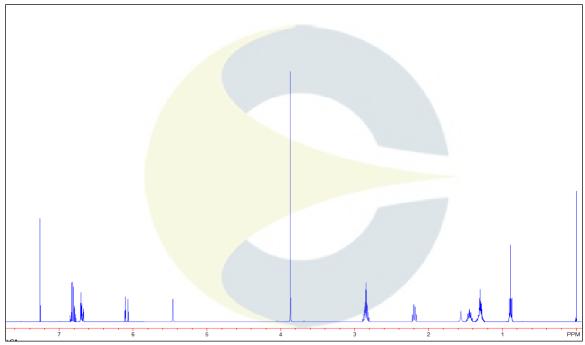
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MASS SPECTRUM OF 6-SHOGAOL (CDXA-16-006713)



1H-NMR SPECTRUM OF 6-SHOGAOL (CDXA-16-006713) IN CDCl3



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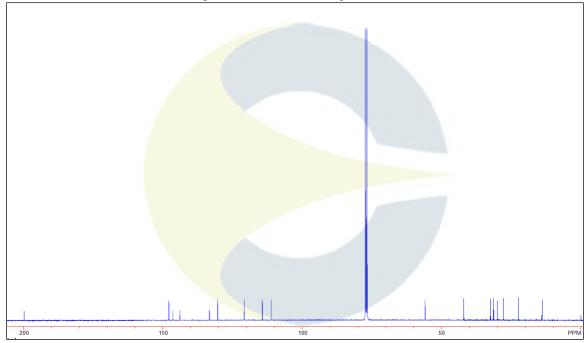




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13C-NMR SPECTRUM OF 6-SHOGAOL (CDXA-16-006713) IN CDCl3



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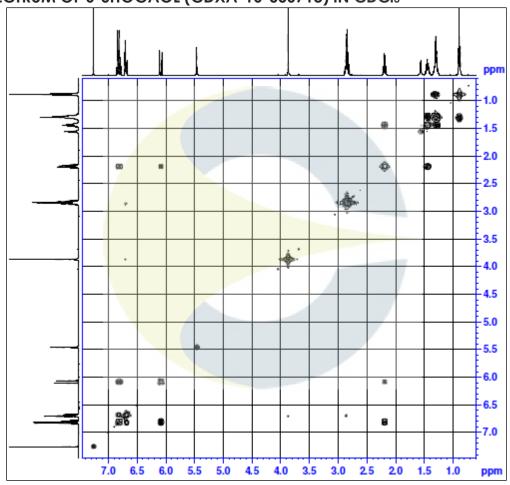




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COSY-NMR SPECTRUM OF 6-SHOGAOL (CDXA-16-006713) IN CDCl3



REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	07/01/2016	New report
01	08/06/2020	Material passed reevaluation by HPLC and moisture determination by KF. Updated analytical results, analytical method, analytical conditions, chromatograms, UV spectrum, and expiration date. Removed melting point.

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