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Certificate of Analysis

PRODUCT NAME DL-Citronellol

PART NUMBER 00003668

STANDARD TYPE Analytical Standard (AS)

LOT NUMBER 00003668-M01

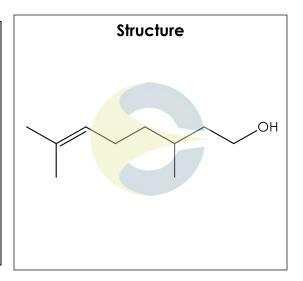
REPORT NUMBER CDXA-RSS-3661-02

SAMPLE NUMBER CDXA-09-4223

DATE OF SAMPLE 09/08/2009

DATE OF RE-EVALUATION 10/02/2014 (1st); 08/07/2019 (2nd)

DATE OF REPORT 09/16/2019



CHEMICAL NAMES 3,7-Dimethyl-6-octen-1-ol; (±)-Citronellol; 2,6-Dimethyl-2-octen-8-ol; 2,3-

Dihydrogeraniol; Dihydrogeraniol

CHEMICAL FORMULA C₁₀H₂₀O

MOLECULAR WEIGHT (MW) 156.27

CHEMICAL FAMILY Oils

CAS NUMBER [106-22-9]

EC#(EINECS) 203-375-0

RTECS RH3400000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700-10.2 Meth 140	NA	97.5%
Mass Spectrum	0.700-10.2 Meth 140	Conforms	Conforms
Appearance	NA	NA	Clear liquid

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 08/2024 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND

AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)

COLUMN Phenomenex Zebron ZB-5HT Inferno, 30 m x 0.32 mm x 0.25 µm; connected to an

MXT Y-union, connected to a Restek Siltek deactivated guard column: 10 m x

0.25 mm to FID; and an Agilent 5.0 m x 100 µm transfer line to MSD.

CARRIER GAS Helium

COLUMN TEMP. Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C.

Hold at 340 °C for 5.0 minutes.

FLOW RATE 2.0 mL/minute

INJECTOR TEMP. 300 °C

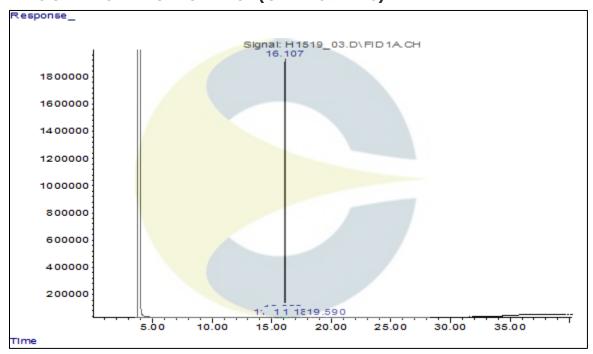
INJECTOR SPLIT RATIO 20:1

INJECTION VOL. 1.0 μL

INJECTION CONC. 1.4 mg/mL in Isopropyl alcohol

DETECTION FID (350 °C) & MSD (Interface: 300 °C, Source: 250 °C, Quad: 200 °C)

GC CHROMATOGRAM OF DL-CITRONELLOL (CDXA-09-4223)





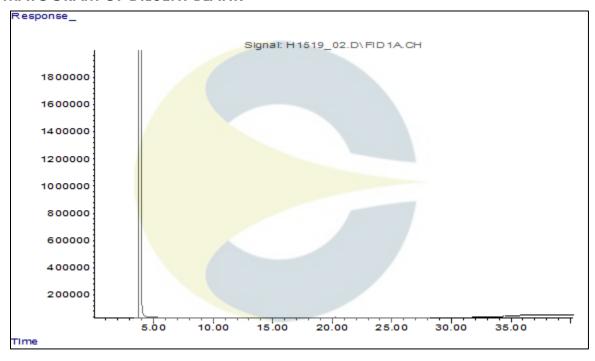




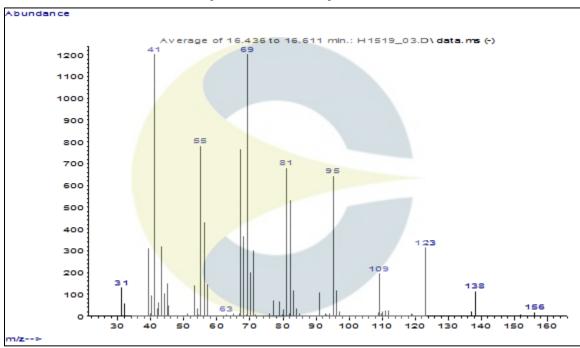
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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF DL-CITRONELLOL (CDXA-09-4223)









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REVISION HISTORY

Revision History	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/20/2009	New report
01	11/26/2014	Passed re-evaluation by GC-FID. Extended expiration date, updated structure.
02	09/16/2019	Material passed re-evaluation by GCMS/FID. Updated expiration date, chromatograms, spectra, Analytical Conditions, Analytical Method and Results.