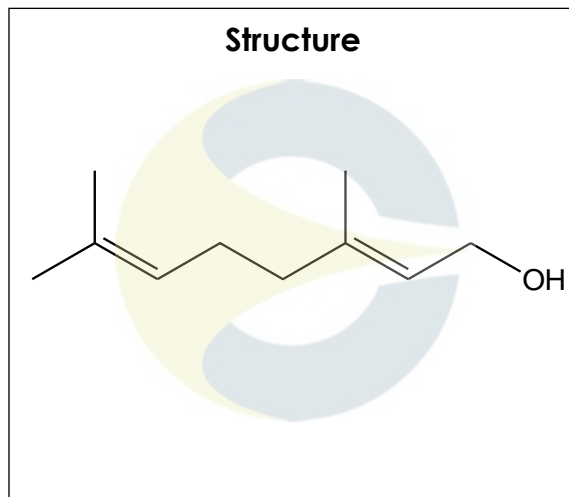


Certificate of Analysis
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PRODUCT NAME	Geraniol
PART NUMBER	00007150
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00007150-64A
REPORT NUMBER	CDXA-RSS-3027-02
SAMPLE NUMBER	CDXA-08-1791
DATE OF SAMPLE	08/04/2008
DATE OF RE-EVALUATION	02/19/2013 (1 st); 03/31/2017(2 nd); 05/10/2021 (3 rd)
DATE OF REPORT	05/19/2021



CHEMICAL NAMES	(2E)-3,7-Dimethyl-2,6-octadien-1-ol; (E)3,7-Dimethyl-2,6-octadien-1-ol; 3,7-Dimethyl-trans-2,6-octadien-1-ol; β-Geraniol; trans-Geraniol; Geranyl alcohol; Lemonol
CHEMICAL FORMULA	C ₁₀ H ₁₈ O
MOLECULAR WEIGHT (MW)	154.25
CHEMICAL FAMILY	Essential oils
CAS NUMBER	[106-24-1]
EC#(EINECS)	203-377-1
RTECS	RG5830000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	97.6%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	Clear oil

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	05/2026 under the above conditions.

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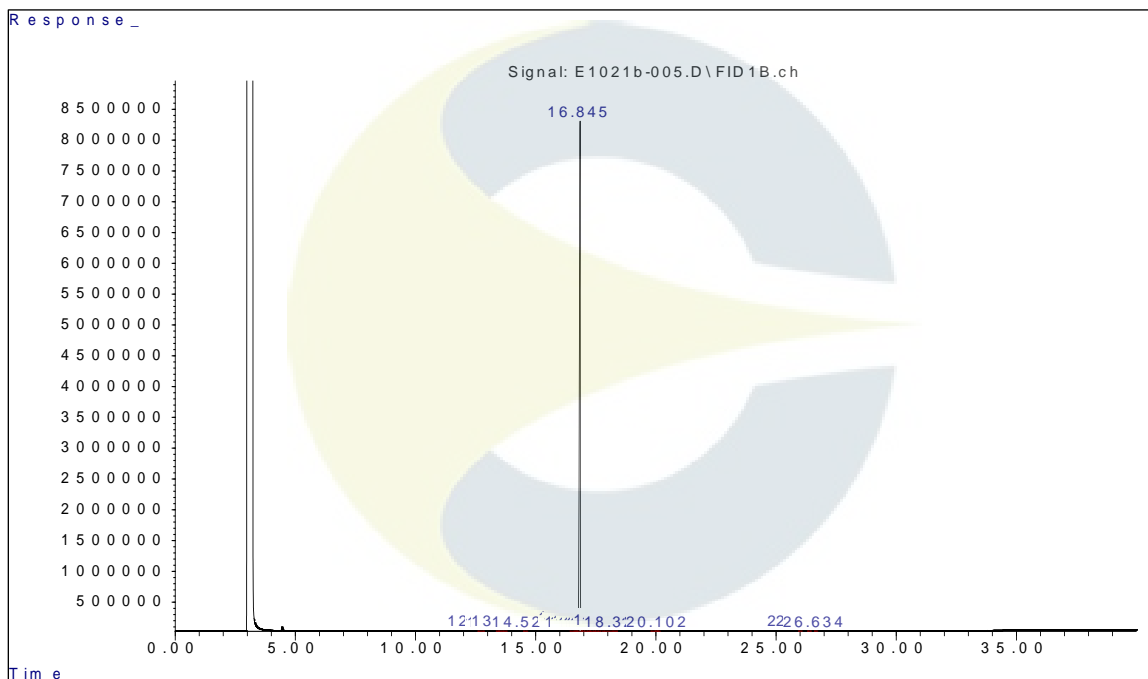
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ANALYTICAL CONDITIONS

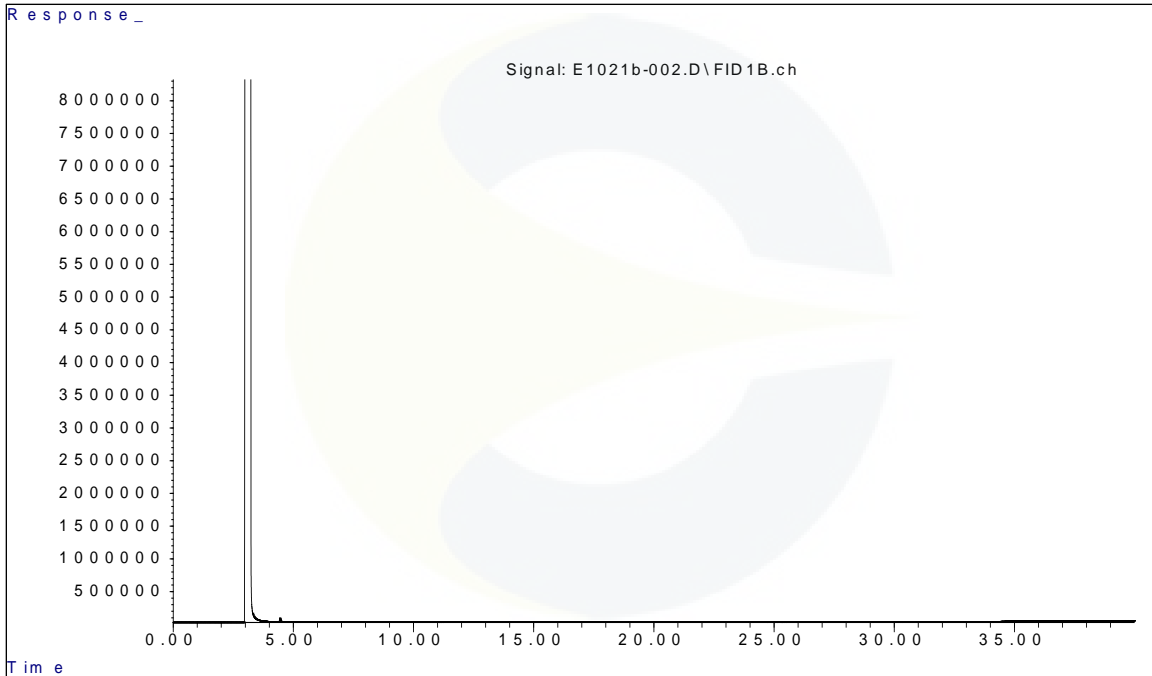
INSTRUMENT	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
COLUMN	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
CARRIER GAS	Helium
COLUMN TEMP.	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.
FLOW RATE	2.0 mL/minute
INJECTOR TEMP.	300 °C
INJECTOR SPLIT RATIO	20:1
INJECTION VOL.	1.0 µL
INJECTION CONC.	3.8 mg/mL in Methanol
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

GC CHROMATOGRAM OF GERANIOL (CDXA-08-1791)

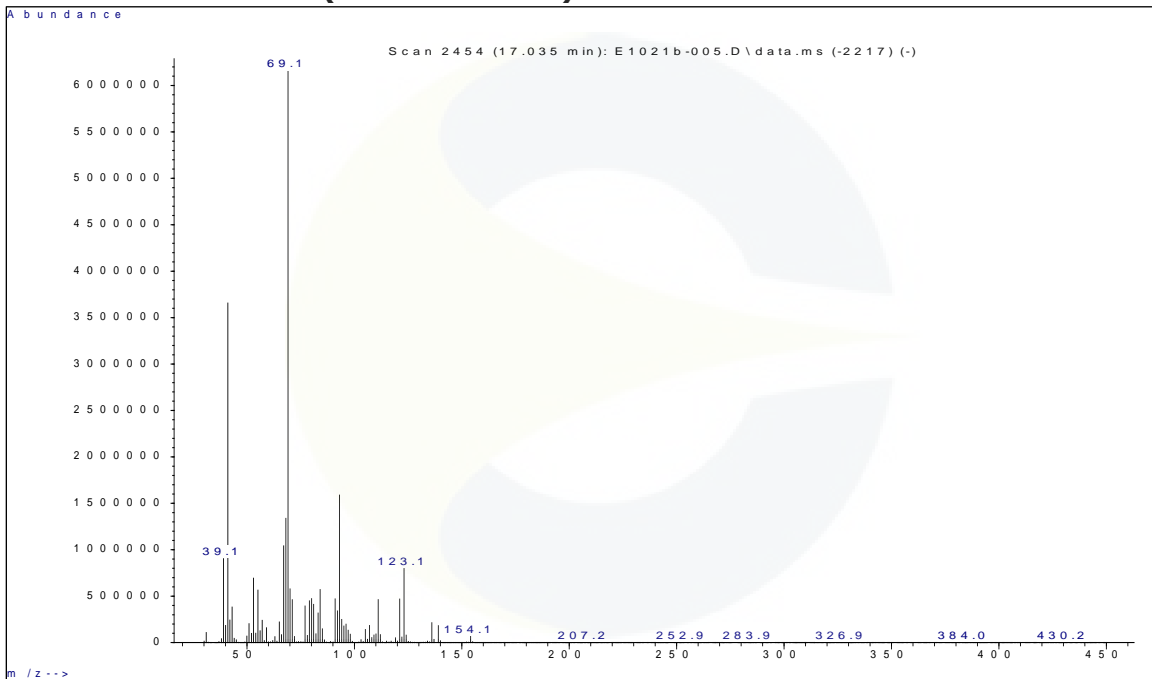


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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF GERANIOL (CDXA-08-1791)



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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/04/2013	New report. Passed re-evaluation by GC-FID. Removed melting point.
01	05/09/2017	Passed second re-evaluation by GC-FID/MS. Updated expiration date, analytical method, analytical conditions, analytical chromatograms, and results.
02	05/19/2021	Passed third re-evaluation by GC-FID/MS. Updated expiration date, analytical results, analytical conditions, chromatograms, and mass spectrum. Removed melting point.

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