



Essential Oil University

GC/MS Report

Item	Lot
Cannabis (Hemp) EO, Canada <i>Cannabis sativa</i>	6M
Date	Analyst
11/20/2025	Dr. Robert S. Pappas

© Copyright 2025 by Essential Oil University. All rights reserved. Any publishing, copying, use, dissemination, or distribution of this report, including online, without the express written permission of Essential Oil University is strictly prohibited.

The analysis of this batch sample, Cannabis (Hemp) EO, Canada, meets the expected chemical profile for authentic essential oil of *Cannabis sativa*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive
Sample Name: Cannabis (Hemp) EO, Canada
Botanical Name: Cannabis sativa
Lot Number: 6M
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Canada
Analysis Date: 11/20/2025
Manufacture Date: June 2025

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra
Injection Type: Split
Split Ratio: 24.4

Column Type: ZB-5
Injection Volume: 0.1 µL
Temperature Program: 2C/min

Physical Data

ANALYSIS	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-3.12
Refractive Index @20°C	USP[831]	1.48890
Specific Gravity @20°C	USP[841]	0.87336



Ret. Time	Component	Ret. Idx.	Conc. %	
9.646	Hexanol	864	0.02%	
12.211	Hashishene	920	0.1%	
12.482	alpha-Thujene	925	0.06%	
12.910	alpha-Pinene	932	8.4%	ALLERGEN
13.844	Camphene	949	0.1%	
14.154	Unidentified	954	0.07%	
14.543	Camphene isomer	961	0.02%	
14.773	Unidentified	965	0.09%	
15.134	Sabinene	971	0.09%	
15.453	beta-Pinene	977	5.2%	ALLERGEN
15.650	Unidentified	980	0.03%	
15.764	Camphene isomer	982	0.35%	
15.960	3-para-Menthene	986	0.02%	
16.084	Myrcene	988	19.65%	PROP. 65
16.789	1-para-Menthene	1000	0.03%	
17.012	Pseudolimonene	1004	1.11%	
17.160	alpha-Phellandrene	1006	0.28%	
17.304	delta-3-Carene	1008	0.46%	
17.828	alpha-Terpinene	1016	0.12%	ALLERGEN
18.320	para-Cymene	1024	0.23%	
18.629	Limonene	1028	6.96%	ALLERGEN IFRA
18.739	beta-Phellandrene	1030	0.28%	
18.841	1,8-Cineole	1031	0.28%	
19.019	cis-beta-Ocimene	1034	0.23%	
19.718	trans-beta-Ocimene	1045	2.41%	
20.535	gamma-Terpinene	1057	0.16%	
21.345	1-Octanol	1069	0.12%	
22.374	Terpinolene	1085	5.02%	ALLERGEN
22.621	Fenchone	1088	1.17%	
23.325	Linalool	1099	1.74%	ALLERGEN IFRA
26.210	trans-Pinocarveol	1140	0.03%	
26.325	Epoxyterpinolene	1142	0.11%	
28.378	Borneol	1171	0.3%	
28.819	Unidentified	1178	0.02%	
28.968	Terpinen-4-ol	1180	0.18%	
29.379	para-Cymen-8-ol	1186	0.16%	
29.970	alpha-Terpineol	1194	0.76%	ALLERGEN
32.102	Citronellol	1225	0.12%	ALLERGEN IFRA
33.313	Carvone	1243	0.11%	ALLERGEN IFRA
40.494	Eugenol	1350	0.07%	ALLERGEN IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
42.156	alpha-Copaene	1375	0.1%	
42.798	Hexyl hexanoate	1385	0.21%	
44.029	cis-beta-Caryophyllene	1404	0.12%	ALLERGEN
44.566	cis-alpha-Bergamotene	1412	0.04%	
45.012	beta-Caryophyllene	1419	27.75%	ALLERGEN
45.812	trans-alpha-Bergamotene	1432	0.39%	
46.845	Humulen-(v1)	1449	0.43%	
47.038	trans-beta-Farnesene	1452	0.3%	
47.245	alpha-Humulene	1455	10.39%	
47.505	Alloaromodendrene	1459	0.26%	
48.258	Cadina-1(6),4-diene	1471	0.02%	
48.998	Selina-4,11-diene	1483	0.1%	
49.318	beta-Selinene	1488	0.3%	
49.520	Valencene	1491	0.02%	
49.745	alpha-Selinene	1495	0.19%	
50.459	beta-Bisabolene	1507	0.02%	
50.888	Unidentified	1514	0.03%	
51.157	Selina-3,7(11)-diene isomer	1518	0.03%	
51.936	trans-Cadina-1(6),4-diene	1531	0.09%	
52.207	Selina-4(15),7(11)-diene	1536	0.13%	
52.482	Selina-3,7(11)-diene isomer	1541	0.17%	
53.515	Germacrene B	1558	0.04%	
54.878	Caryophyllene oxide	1581	1.11%	
56.502	Humulene epoxide II	1609	0.24%	
74.336	meta-Camphorene	1945	0.63%	
76.061	para-Camphorene	1980	0.22%	

Total Identified Compounds **99.75 %**



TIC
3,821,216

