



Essential Oil University

GC/MS Report

Item	Lot
Cannabis (Hemp) EO, Canada <i>Cannabis sativa</i>	9A
Date	Analyst
1/14/2025	Dr. Robert S. Pappas

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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:** 9A**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Canada**Analysis Date:** 1/14/2025**Manufacture Date:** March 2024

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

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-3.00

1.48749

0.86921



Ret. Time	Component	Ret. Idx.	Conc. %	
9.016	Hexanol	860	0.03%	
11.456	Hashishene	917	0.08%	
11.721	alpha-Thujene	921	0.06%	
12.135	alpha-Pinene	929	7.24%	
13.013	Camphene isomer	945	0.08%	
13.336	Unidentified	951	0.06%	
13.706	Unidentified	958	0.02%	
13.935	Unidentified	962	0.09%	
14.267	Sabinene	968	0.09%	
14.572	beta-Pinene	973	4.4%	
14.775	Ocimene isomer	977	0.03%	
14.879	Camphene	979	0.27%	
15.062	3-para-Menthene	982	0.02%	
15.237	Myrcene	985	18.89%	
15.876	para-Menth-1-ene	997	0.02%	
16.097	Pseudolimonene	1001	0.88%	
16.241	alpha-Phellandrene	1003	0.24%	
16.382	delta-3-Carene	1005	0.37%	
16.894	alpha-Terpinene	1013	0.1%	
17.372	para-Cymene	1021	0.15%	
17.683	Limonene	1025	5.62%	IFRA
17.778	beta-Phellandrene	1027	0.25%	
17.850	1,8-Cineole	1028	0.22%	
18.069	cis-beta-Ocimene	1031	0.22%	
18.746	trans-beta-Ocimene	1042	2.15%	
19.522	gamma-Terpinene	1054	0.14%	
20.309	1-Octanol	1066	0.13%	
21.327	Terpinolene	1081	4.48%	
21.535	Fenchone	1084	0.88%	
21.639	para-Cymenene	1086	0.05%	IFRA
22.266	Linalool	1096	1.65%	
25.049	trans-Pinocarveol	1136	0.03%	
25.186	Epoxyterpinolene	1138	0.08%	
25.377	trans-Verbenol	1141	0.01%	
25.479	Camphor	1142	0.02%	
27.191	Borneol	1167	0.3%	
27.472	Unidentified	1171	0.03%	
27.656	Unidentified	1174	0.02%	
27.795	Terpinen-4-ol	1176	0.15%	
28.222	para-Cymen-8-ol	1182	0.11%	



Ret. Time	Component	Ret. Idx.	Conc. %	
28.580	Hexyl butyrate	1187	0.02%	
28.796	alpha-Terpineol	1191	0.72%	
29.144	Cyclocitral isomer	1196	0.01%	
30.936	Citronellol	1222	0.19%	IFRA
31.643	Unidentified	1232	0.05%	
34.114	Citronellyl formate	1269	0.02%	
34.479	Unidentified	1274	0.03%	
40.872	alpha-Copaene	1370	0.13%	
41.577	Hexyl hexanoate	1381	0.28%	
42.724	Isocaryophyllene	1399	0.14%	
43.312	cis-alpha-Bergamotene	1408	0.05%	
43.769	beta-Caryophyllene	1415	30.94%	
44.188	Unidentified	1422	0.03%	
44.295	gamma-Elementene	1424	0.04%	
44.533	trans-alpha-Bergamotene	1428	0.46%	
45.550	Humulen-(v1)	1444	0.47%	
45.776	trans-beta-Farnesene	1448	0.46%	
45.958	alpha-Humulene	1450	10.89%	
46.191	Alloaromodendrene	1454	0.28%	
46.640	Unidentified	1461	0.03%	
46.939	cis-Cadina-1(6),4-diene	1466	0.05%	
47.010	Unidentified	1467	0.02%	
47.673	Selina-4,11-diene	1478	0.11%	
47.988	beta-Selinene	1483	0.31%	
48.200	Valencene	1486	0.04%	
48.419	alpha-Selinene	1490	0.22%	
48.956	trans,trans-alpha-Farnesene	1498	0.03%	
49.163	beta-Bisabolene	1502	0.03%	
49.260	beta-Curcumene	1504	0.01%	
49.464	Unidentified	1507	0.03%	
49.559	Unidentified	1509	0.04%	
49.810	Unidentified	1513	0.08%	
50.120	beta-Sesquiphellandrene	1518	0.05%	
50.607	Unidentified	1526	0.12%	
50.868	Selina-4(15),7(11)-diene	1531	0.15%	
51.145	Selina-3,7(11)-diene	1535	0.21%	
52.151	Germacrene B	1552	0.06%	
52.325	Unidentified	1555	0.05%	
53.518	Caryophyllene oxide	1575	1.21%	
55.134	Humulene epoxide II	1603	0.27%	



Ret. Time	Component	Ret. Idx.	Conc. %	
68.859	Unidentified	1857	0.04%	
70.216	Unidentified	1884	0.04%	
71.293	Unidentified	1905	0.04%	
72.954	meta-Camphorene	1939	1.36%	
74.669	para-Camphorene	1974	0.53%	

Total Identified Compounds **99.18 %**

