



Essential Oil University

GC/MS Report

Item	Lot
Frankincense EO, Carterii, P&N <i>Boswellia carterii</i>	3AA
Date	Analyst
10/15/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Frankincense EO, Carterii, P&N, meets the expected chemical profile for authentic essential oil of *Boswellia carterii*. 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:** Frankincense EO, Carterii, P&N**Botanical Name:** Boswellia carterii**Lot Number:** 3AA**Production Method:** Hydrodistillation**Sample Type:** EO - Single**Country of Origin:** Somaliland**Analysis Date:** 10/15/2025**Manufacture Date:** September 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

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-8.04

1.47024

0.86790



Ret. Time	Component	Ret. Idx.	Conc. %	
6.224	Toluene	763	0.03%	PROP. 65 IFRA
8.367	6,6-Dimethylhepta-2,4-diene	832	0.01%	
10.259	Unidentified	879	0.01%	
11.587	Unidentified	909	0.02%	
12.159	Hashishene	919	0.08%	
12.281	Tricyclene	921	0.06%	
12.436	alpha-Thujene	924	9.97%	
12.894	alpha-Pinene	932	42.3%	ALLERGEN
13.397	Thuja-2,4(10)diene isomer	941	0.24%	
13.683	alpha-Fenchene	946	0.02%	
13.785	Camphene	948	0.52%	
13.982	Thuja-2,4(10)diene	951	0.15%	
15.000	Unidentified	969	0.08%	
15.074	Sabinene	970	6.01%	
15.390	beta-Pinene	976	4.13%	ALLERGEN
16.005	Myrcene	987	3.2%	PROP. 65
16.095	Unidentified	988	0.03%	
16.460	Unidentified	995	0.01%	
16.975	Pseudolimonene	1003	0.02%	
17.030	1,3,8-para-Menthatriene	1004	0.03%	
17.101	alpha-Phellandrene	1005	1.28%	
17.247	delta-3-Carene	1007	1.03%	
17.416	Hexyl acetate	1010	0.02%	
17.758	alpha-Terpinene	1015	0.21%	ALLERGEN
17.913	ortho-Cymene	1017	0.03%	
18.248	para-Cymene	1022	3.01%	
18.380	Unidentified	1024	0.15%	
18.560	Limonene	1027	8.9%	ALLERGEN IFRA
18.665	beta-Phellandrene	1029	0.36%	
18.760	1,8-Cineole	1030	0.17%	
18.940	cis-beta-Ocimene	1033	0.09%	
19.640	trans-beta-Ocimene	1043	0.04%	
19.859	Unidentified	1047	0.05%	
20.455	gamma-Terpinene	1056	0.85%	
21.249	1-Octanol	1068	0.19%	
21.404	Pinol	1070	0.03%	
22.293	Terpinolene	1083	0.12%	ALLERGEN
22.613	para-Cymenene	1088	0.07%	
23.160	Perillene	1096	0.04%	
23.242	Linalool	1098	0.17%	ALLERGEN IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
23.708	Solusterol	1104	0.04%	
23.943	Unidentified	1108	0.01%	
24.160	Unidentified	1111	0.03%	
24.527	beta-Thujone	1116	0.23%	IFRA
24.783	trans-p-Mentha-2,8-dienol	1120	0.02%	
25.142	alpha-Campholenal	1125	0.1%	
25.314	Unidentified	1127	0.04%	
26.011	trans-Sabinol	1137	0.04%	
26.119	trans-Pinocarveol	1139	0.24%	
26.175	cis-Verbenol	1140	0.07%	
26.431	trans-Verbenol	1144	0.29%	
26.779	alpha-Phellandrene-8-ol	1149	0.09%	
27.484	trans-Pinocamphone	1159	0.03%	
27.613	Unidentified	1161	0.05%	
28.065	Unidentified	1167	0.13%	
28.240	para-Mentha-1,5-dien-8-ol	1170	0.27%	
28.878	Terpinen-4-ol	1179	0.62%	
29.295	para-Cymen-8-ol	1185	0.08%	
29.636	Unidentified	1190	0.02%	
29.886	alpha-Terpineol	1193	0.52%	ALLERGEN
30.215	Unidentified	1198	0.03%	
30.430	alpha-Phellandrene epoxide	1201	0.06%	
30.703	Verbenone	1205	0.14%	
30.920	Octyl acetate	1208	3.3%	
31.503	trans-Carveol	1217	0.1%	
32.078	1-Methoxydecane	1225	0.03%	
32.416	cis-Carveol	1230	0.03%	
33.118	Unidentified	1240	0.03%	
33.223	Carvone	1242	0.07%	ALLERGEN IFRA
33.569	Unidentified	1247	0.03%	
34.679	3,5-Dimethoxytoluene	1263	0.03%	
35.991	Bornyl acetate	1282	0.18%	
36.867	Carvacrol	1295	0.03%	
40.163	alpha-Cubebene	1345	0.16%	
41.607	Unidentified	1367	0.04%	
42.055	alpha-Copaene	1373	0.42%	
42.581	alpha-Bourbonene	1381	0.07%	
42.870	Unidentified	1386	0.04%	
42.938	beta-Elemene	1387	0.39%	
44.087	alpha-Gurjunene	1405	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.882	beta-Caryophyllene	1417	3.45%	ALLERGEN
45.518	beta-Copaene	1427	0.02%	
45.707	trans-alpha-Bergamotene	1430	0.05%	
46.722	Cadina-3,5-diene	1447	0.04%	
47.133	alpha-Humulene	1453	0.38%	
47.400	Alloaromodendrene	1457	0.1%	
48.150	cis-Cadina-1(6),4-diene	1469	0.05%	
48.328	trans-Cadina-1(6),4-diene	1472	0.24%	
48.716	Germacrene D	1478	0.22%	
49.091	Unidentified	1484	0.05%	
49.215	beta-Selinene	1486	0.24%	
49.391	Unidentified	1489	0.09%	
49.634	alpha-Selinene	1493	0.28%	
49.786	alpha-Murolene	1495	0.12%	
50.674	gamma-Cadinene	1510	0.32%	
50.799	Cubebol	1512	0.17%	
50.971	delta-Cadinene	1515	0.57%	
51.830	Unidentified	1530	0.03%	
52.076	alpha-Cadinene	1534	0.02%	
53.582	Unidentified	1559	0.03%	
54.294	Unidentified	1571	0.02%	
54.442	Spathulenol	1574	0.02%	
54.775	Caryophyllene oxide	1579	0.43%	
55.495	Viridiflorol	1591	0.07%	
56.367	Unidentified	1606	0.08%	
56.385	Humulene epoxide II	1607	0.05%	
56.600	Eudesmol analogue	1610	0.04%	
56.699	Unidentified	1612	0.05%	
57.410	Epicubenol	1625	0.04%	
58.207	tau-Cadinol	1639	0.39%	
58.953	Unidentified	1652	0.06%	
74.537	Neocembrene	1949	0.04%	
83.007	Cembrenol	2130	0.02%	
83.492	Incensole	2141	0.09%	
83.592	Serratol	2143	0.2%	
84.331	Incensyl acetate	2159	0.07%	

Total Identified Compounds **98.8 %**



TIC
36,542,365

