



GC/MS Report

GC3

Item	Lot 13521
98401-33	
<i>Boswellia carterii</i>	
Frankincense EO, Carterii, P&N	
Date	
9/26/2025	



Sample Information

Sample Name: Frankincense Carterii**Botanical Name:** Boswellia carterii**Lot Number:** 13521**Production Method:** Hydrodistillation**Sample Type:** EO - Single**Country of Origin:** Somaliland**Analysis Date:** 9/26/2025**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 μ L**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%	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%	
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%	
16.005	Myrcene	987	3.2%	
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%	
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%	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%	
22.613	para-Cymenene	1088	0.07%	
23.160	Perillene	1096	0.04%	
23.242	Linalool	1098	0.17%	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%	
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%	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%	
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

