



Essential Oil University

GC/MS Report

Item	Lot
Frankincense EO, Sacra <i>Boswellia sacra</i>	7R
Date	Analyst
10/28/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Frankincense EO, Sacra, meets the expected chemical profile for authentic essential oil of *Boswellia sacra*. 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, Sacra**Botanical Name:** Boswellia sacra**Lot Number:** 7R**Production Method:** Steam Distilled**Sample Type:** EO - Single**Country of Origin:** Oman; India**Analysis Date:** 10/28/2025**Manufacture Date:** October 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

+24.16

1.46774

0.86003



Ret. Time	Component	Ret. Idx.	Conc. %	
6.113	Toluene	754	0.03%	PROP. 65 IFRA
8.216	6,6-Dimethylhepta-2,4-diene	825	0.01%	
11.946	Hashishene	912	0.16%	
12.068	Tricyclene	915	0.05%	
12.222	alpha-Thujene	917	2.12%	
12.717	alpha-Pinene	926	65.37%	ALLERGEN
12.991	Unidentified	931	0.02%	
13.172	Thujadiene isomer	934	0.01%	
13.452	alpha-Fenchene	939	0.31%	
13.551	Camphene	941	2.4%	
13.748	Thuja-2,4(10)-diene	944	0.2%	
13.858	Unidentified	946	0.04%	
14.626	Unidentified	960	0.01%	
14.740	Cymene isomer	962	0.06%	
14.827	Sabinene	963	2.9%	
15.135	beta-Pinene	969	2.94%	ALLERGEN
15.760	Myrcene	980	1.56%	PROP. 65
16.394	Unidentified	991	0.01%	
16.683	Pseudolimonene	996	0.07%	
16.831	alpha-Phellandrene	998	1.26%	
16.980	delta-3-Carene	1001	2.57%	
17.495	alpha-Terpinene	1009	0.05%	ALLERGEN
17.649	ortho-Cymene	1011	0.01%	
17.976	para-Cymene	1016	0.83%	
18.303	Limonene	1021	12%	ALLERGEN IFRA
18.398	beta-Phellandrene	1022	0.26%	
18.479	1,8-Cineole	1023	0.36%	
18.677	cis-beta-Ocimene	1026	0.19%	
19.367	trans-beta-Ocimene	1037	0.16%	
20.167	gamma-Terpinene	1049	0.07%	
21.986	Terpinolene	1076	0.11%	ALLERGEN
22.277	para-Cymenene	1080	0.03%	
22.931	Linalool	1090	0.04%	ALLERGEN IFRA
23.602	Unidentified	1100	0.02%	
24.295	Unidentified	1110	0.01%	
24.455	trans-para-Mentha-2,8-dienol	1112	0.01%	
24.796	alpha-Campholenal	1117	0.15%	
25.217	cis-Limonene oxide	1123	0.01%	
25.765	trans-Pinocarveol	1131	0.17%	
25.810	cis-Verbenol	1132	0.07%	



Ret. Time	Component	Ret. Idx.	Conc. %	
26.083	trans-Verbenol	1136	0.28%	
26.210	Camphor	1138	0.01%	ALLERGEN
26.431	alpha-Phellandrene-8-ol	1141	0.07%	
27.131	trans-Pinocamphone	1151	0.02%	
27.262	para-Mentha-1,5-dien-8-ol	1153	0.04%	
27.893	alpha-Phellandrene-8-ol isomer	1162	0.19%	
27.935	Borneol	1162	0.03%	
28.335	Menthol	1168	0.01%	ALLERGEN
28.532	Terpinen-4-ol	1171	0.1%	
28.950	para-Cymen-8-ol	1177	0.03%	
29.535	alpha-Terpineol	1185	0.28%	ALLERGEN
29.585	Myrtenol	1186	0.04%	
30.080	alpha-Phellandrene epoxide	1193	0.01%	
30.339	Verbenone	1197	0.07%	
31.157	trans-Carveol	1209	0.05%	
31.679	Citronellol	1216	0.02%	ALLERGEN IFRA
32.070	cis-Carveol	1222	0.01%	
32.877	Carvone	1234	0.01%	ALLERGEN IFRA
33.275	Linalyl acetate	1239	0.01%	ALLERGEN
35.640	Bornyl acetate	1274	0.2%	
36.526	Unidentified	1287	0.01%	
39.291	Methyl anthranilate	1328	0.02%	
39.780	alpha-Terpinyol acetate	1335	0.08%	
41.259	Isodene	1358	0.02%	
41.722	alpha-Copaene	1365	0.07%	
42.246	beta-Bourbonene	1373	0.2%	
42.441	alpha-Bourbonene	1376	0.02%	
42.611	beta-Elementene	1378	0.2%	
42.770	Unidentified	1381	0.01%	
43.751	alpha-Gurjunene	1395	0.01%	
44.480	Unidentified	1407	0.03%	
44.534	beta-Caryophyllene	1408	0.15%	ALLERGEN
45.182	beta-Copaene	1418	0.03%	
46.085	Isogermacrene D	1432	0.01%	
46.789	alpha-Humulene	1443	0.05%	
47.068	Alloaromadendrene	1448	0.01%	
47.780	Unidentified	1459	0.01%	
47.880	Unidentified	1461	0.01%	
48.001	trans-Cadina-1(6),4-diene	1463	0.06%	
48.167	Unidentified	1465	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
48.377	Germacrene D	1469	0.07%	
48.755	Unidentified	1475	0.01%	
48.874	beta-Selinene	1477	0.14%	
49.063	gamma-Amorphene	1480	0.02%	
49.190	Unidentified	1482	0.01%	
49.307	alpha-Selinene	1484	0.11%	
49.460	alpha-Murolene	1486	0.02%	
50.336	gamma-Amorphene	1500	0.02%	
50.462	Cubebol	1502	0.02%	
50.650	delta-Cadinene	1505	0.14%	
52.407	Elemol	1535	0.01%	
53.226	Unidentified	1548	0.01%	
54.421	Caryophyllene oxide	1568	0.02%	
55.989	Copaborneol	1595	0.03%	
56.266	10-epi-gamma-Eudesmol	1599	0.03%	
58.525	Unidentified	1639	0.01%	
58.595	Eudesmol analogue	1640	0.04%	
60.306	alpha-Bisabolol	1671	0.01%	IFRA
64.665	Benzyl benzoate	1750	0.08%	ALLERGEN IFRA
66.196	Phellandrene dimer	1779	0.06%	
73.909	meta-Camphorene	1929	0.01%	
77.005	Verticilla-4(20),7,11-triene	1993	0.01%	
83.282	Serratol	2128	0.01%	

Total Identified Compounds **99.8 %**



TIC
39,262,841

