



Essential Oil University

GC/MS Report

Rosemary (ct. Verbenone) EO

Rosmarinus officinalis

Item | Lot

6F

Date | Analyst

10/16/2025

Dr. Robert S. Pappas

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The analysis of this batch sample, Rosemary (ct. Verbenone) EO, meets the expected chemical profile for authentic essential oil of *Rosmarinus officinalis*. 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:** Rosemary (ct. Verbenone) EO**Botanical Name:** Rosmarinus officinalis**Lot Number:** 6F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 10/16/2025**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

+13.88

1.47169

0.91976



Ret. Time	Component	Ret. Idx.	Conc. %	
10.127	Unidentified	873	0.04%	
11.109	Unidentified	897	0.01%	
11.183	Bornylene	899	0.01%	
11.210	Unidentified	899	0.01%	
11.430	Unidentified	903	0.02%	
11.980	Hashishene	913	0%	
12.102	Tricyclene	915	0.8%	
12.253	alpha-Thujene	918	0.11%	
12.702	alpha-Pinene	926	21.87%	ALLERGEN
13.000	beta-Fenchene	931	0.03%	
13.488	alpha-Fenchene	940	0.12%	
13.590	Camphene	941	4.88%	
13.786	Thuja-2,4(10)diene	945	0.01%	
14.864	Sabinene	964	0.04%	
15.172	beta-Pinene	969	1.59%	ALLERGEN
15.578	3-Octanone	976	0.02%	
15.799	Myrcene	980	0.97%	PROP. 65
16.252	3-Octanol	988	0.05%	
16.722	Pseudolimonene	996	0.05%	
16.872	alpha-Phellandrene	999	0.04%	
17.017	delta-3-Carene	1001	0.06%	
17.536	alpha-Terpinene	1009	0.12%	ALLERGEN
18.019	para-Cymene	1016	1.36%	
18.337	Limonene	1021	4.83%	ALLERGEN IFRA
18.440	beta-Phellandrene	1023	0.04%	
18.538	1,8-Cineole	1024	14.03%	
18.718	cis-beta-Ocimene	1027	0.02%	
19.409	trans-beta-Ocimene	1037	0.01%	
20.208	gamma-Terpinene	1049	0.22%	
21.012	trans-Sabinene hydrate	1061	0.03%	
22.024	Terpinolene	1077	0.12%	ALLERGEN
22.250	Fenchone	1080	0.01%	
22.338	para-Cymenene	1081	0.05%	
22.972	Linalool	1091	2.04%	ALLERGEN IFRA
23.207	Hotrienol	1094	0.02%	
23.353	Nonanal	1097	0.01%	
23.499	Unidentified	1099	0.01%	
23.649	Unidentified	1101	0.01%	
24.323	endo-Fenchol	1111	0.05%	
24.479	Chrysanthenone	1113	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
24.844	alpha-Campholenal	1118	0.02%	
25.819	trans-Pinocarveol	1132	0.02%	
26.291	Camphor	1139	11.61%	ALLERGEN
26.813	trans-beta-Terpineol	1146	0.04%	ALLERGEN
27.176	trans-Pinocamphone	1151	0.07%	
27.302	Pinocarvone	1153	0.02%	
27.382	Isoborneol	1154	0.13%	
27.681	Unidentified	1159	0.01%	
27.895	delta-Terpineol	1162	0.15%	ALLERGEN
28.008	Borneol	1163	7.72%	
28.270	Isopinocamphone	1167	0.05%	
28.429	Unidentified	1169	0.02%	
28.575	Terpinen-4-ol	1171	0.53%	
29.000	para-Cymen-8-ol	1178	0.07%	
29.587	alpha-Terpineol	1186	2.07%	ALLERGEN
29.795	Unidentified	1189	0.01%	
30.133	Bornyl formate	1194	0.05%	
30.427	Verbenone	1198	6.48%	
31.217	Unidentified	1209	0.04%	
31.724	Citronellol	1217	0.03%	ALLERGEN IFRA
31.884	Unidentified	1219	0.02%	
32.674	Unidentified	1231	0.04%	
32.913	Carvone	1234	0.01%	ALLERGEN IFRA
33.139	Unidentified	1237	0.02%	
33.334	Geraniol	1240	0.09%	ALLERGEN IFRA
33.455	Unidentified	1242	0.01%	
33.596	Piperitone	1244	0.02%	
34.614	Unidentified	1259	0.01%	
35.439	Thymol	1271	0.03%	
35.718	Bornyl acetate	1275	13.68%	
35.860	Isobornyl acetate	1277	0.16%	
36.010	trans-Verbenyl acetate	1279	0.02%	
36.078	Unidentified	1280	0.02%	
36.569	Carvacrol	1287	0.02%	
37.624	Unidentified	1303	0.01%	
38.144	Unidentified	1310	0.01%	
38.262	Myrtenyl acetate	1312	0.05%	
38.899	gamma-Terpinyol acetate	1322	0.03%	
39.218	Pulespenone	1327	0.1%	
39.880	alpha-Cubebene	1337	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
40.093	Eugenol	1340	0.1%	ALLERGEN IFRA
40.866	Terpinyl acetate analogue	1352	0.01%	
41.342	alpha-Ylangene	1359	0.11%	
41.763	alpha-Copaene	1365	0.08%	
41.882	Geranyl acetate	1367	0.04%	ALLERGEN
42.818	Unidentified	1381	0.01%	
43.269	cis-Methyl isoeugenol	1388	0.03%	
43.639	Unidentified	1394	0.01%	
44.578	beta-Caryophyllene	1408	1.25%	ALLERGEN
45.222	beta-Copaene	1419	0.01%	
45.756	Aromadendrene	1427	0.02%	
45.945	6,9-Guaiadiene	1430	0.01%	
46.300	Geranyl acetone	1436	0.01%	
46.443	Humulen-(v1)	1438	0.01%	
46.755	Unidentified	1443	0.03%	
46.831	alpha-Humulene	1444	0.58%	
48.037	gamma-Murolene	1463	0.06%	
48.185	Unidentified	1466	0.01%	
48.299	alpha-Amorphene	1468	0.03%	
48.910	beta-Selinene	1477	0.01%	
49.125	trans-Murrola-4(14),5-diene	1481	0.01%	
49.356	alpha-Selinene	1484	0.02%	
49.503	alpha-Murolene	1487	0.03%	
50.069	beta-Bisabolene	1496	0.01%	
50.379	gamma-Cadinene	1501	0.04%	
50.686	delta-Cadinene	1506	0.1%	
50.789	cis-Calamenene	1508	0.02%	
50.875	trans-Calamenene	1509	0.01%	
52.041	alpha-Calacorene	1529	0.04%	
54.465	Caryophyllene oxide	1569	0.05%	
55.454	Unidentified	1586	0.01%	
56.088	Humulene epoxide II	1596	0.03%	
56.189	Unidentified	1598	0.01%	
57.379	Unidentified	1619	0.02%	
58.670	Unidentified	1642	0.01%	
59.336	Unidentified	1654	0.01%	
76.270	Unidentified	1978	0.01%	

Total Identified Compounds **99.62 %**



TIC
23,841,666

