



Essential Oil University

GC/MS Report

Item	Lot
Rosemary (ct. Verbenone) EO <i>Rosmarinus officinalis</i>	7B
Date	Analyst
2/19/2026	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: 7B
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Italy
Analysis Date: 2/19/2026
Manufacture Date: February 2026

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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	+13.04
Refractive Index @20°C	USP[831]	1.47191
Specific Gravity @20°C	USP[841]	0.91931



Ret. Time	Component	Ret. Idx.	Conc. %	
10.083	Unidentified	872	0.03%	
11.060	Bornylene isomer	896	0.01%	
11.136	Bornylene isomer	898	0.01%	
11.382	Unidentified	903	0.03%	
12.052	Tricyclene	914	0.79%	
12.205	alpha-Thujene	917	0.11%	
12.660	alpha-Pinene	925	21.51%	ALLERGEN
12.949	beta-Fenchene	930	0.03%	
13.434	alpha-Fenchene	939	0.11%	
13.537	Camphene	940	4.8%	
13.733	Thuja-2,4(10)diene	944	0.01%	
14.807	Sabinene	963	0.04%	
15.116	beta-Pinene	968	1.6%	ALLERGEN
15.525	3-Octanone	975	0.02%	
15.744	Myrcene	979	1.14%	PROP. 65
16.200	3-Octanol	987	0.04%	
16.669	Pseudolimonene	996	0.04%	
16.816	alpha-Phellandrene	998	0.04%	
16.963	delta-3-Carene	1001	0.05%	
17.480	alpha-Terpinene	1008	0.11%	ALLERGEN
17.964	para-Cymene	1016	1.34%	
18.284	Limonene	1020	4.76%	ALLERGEN IFRA
18.385	beta-Phellandrene	1022	0.06%	
18.486	1,8-Cineole	1023	14.1%	
18.665	cis-beta-Ocimene	1026	0.02%	
19.354	trans-beta-Ocimene	1037	0.01%	
20.149	gamma-Terpinene	1048	0.24%	
20.947	trans-Sabinene hydrate	1060	0.03%	
21.963	Terpinolene	1076	0.13%	ALLERGEN
22.189	Fenchone	1079	0.01%	
22.278	para-Cymenene	1080	0.04%	
22.914	Linalool	1090	2.04%	ALLERGEN IFRA
23.153	Hotrienol	1094	0.01%	
23.295	Unidentified	1096	0.01%	
23.442	Unidentified	1098	0.01%	
23.587	Unidentified	1100	0.01%	
23.928	Unidentified	1105	0.03%	
24.255	endo-Fenchol	1110	0.05%	
24.415	Chrysanthenone	1112	0.01%	
24.592	exo-Fenchol	1114	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
24.790	alpha-Campholenal	1117	0.02%	
24.923	Unidentified	1119	0.02%	
25.057	Unidentified	1121	0.02%	
25.758	trans-Pinocarveol	1131	0.02%	
26.232	Camphor	1138	11.51%	ALLERGEN
26.740	trans-beta-Terpineol	1145	0.04%	ALLERGEN
27.109	trans-Pinocamphone	1150	0.06%	
27.250	Pinocarvone	1153	0.03%	
27.311	Isoborneol	1153	0.17%	
27.617	Unidentified	1158	0.01%	
27.820	delta-Terpineol	1161	0.1%	ALLERGEN
27.947	Borneol	1162	7.67%	
28.204	Isopinocamphone	1166	0.04%	
28.374	Unidentified	1169	0.01%	
28.509	Terpinen-4-ol	1171	0.52%	
28.943	para-Cymen-8-ol	1177	0.07%	
29.528	alpha-Terpineol	1185	1.99%	ALLERGEN
30.079	Unidentified	1193	0.05%	
30.375	Verbenone	1197	6.6%	
31.156	Unidentified	1209	0.03%	
31.665	Citronellol	1216	0.02%	ALLERGEN IFRA
31.811	Unidentified	1218	0.02%	
32.611	Unidentified	1230	0.04%	
33.070	Unidentified	1236	0.01%	
33.274	Geraniol	1239	0.09%	ALLERGEN IFRA
33.390	Unidentified	1241	0.01%	
33.535	Piperitone	1243	0.02%	
35.381	Carvacrol	1270	0.03%	
35.657	Bornyl acetate	1274	13.94%	
35.793	Isobornyl acetate	1276	0.18%	
35.946	trans-Verbenyl acetate	1278	0.02%	
36.018	Unidentified	1279	0.02%	
36.505	Unidentified	1286	0.05%	
37.307	Unidentified	1298	0.01%	
37.561	Unidentified	1302	0.01%	
38.190	Myrtenyl acetate	1311	0.05%	
38.836	gamma-Terpinyol acetate	1321	0.03%	
39.155	Pulespenone	1326	0.11%	
40.027	Eugenol	1339	0.12%	ALLERGEN IFRA
40.796	Terpinyl acetate analogue	1351	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.267	alpha-Ylangene	1358	0.11%	
41.688	alpha-Copaene	1364	0.08%	
41.818	Geranyl acetate	1366	0.04%	ALLERGEN
43.210	cis-Methyl isoeugenol	1387	0.04%	
44.505	beta-Caryophyllene	1407	1.31%	ALLERGEN
45.685	Aromadendrene	1426	0.01%	
46.372	alpha-Guaiene	1437	0.01%	
46.756	alpha-Humulene	1443	0.61%	
47.963	gamma-Muurolene	1462	0.06%	
48.230	alpha-Amorphene	1466	0.03%	
48.837	beta-Selinene	1476	0.01%	
49.049	trans-Murrola-4(14),5-diene	1479	0.02%	
49.288	alpha-Selinene	1483	0.02%	
49.430	alpha-Muurolene	1486	0.03%	
49.993	beta-Bisabolene	1495	0.02%	
50.309	gamma-Cadinene	1500	0.04%	
50.614	delta-Cadinene	1505	0.09%	
50.723	cis-Calamenene	1506	0.01%	
51.972	alpha-Calacorene	1527	0.04%	
54.391	Caryophyllene oxide	1568	0.05%	
56.014	Humulene epoxide II	1595	0.03%	
56.126	Unidentified	1597	0.02%	
57.314	Unidentified	1618	0.02%	
58.606	Unidentified	1641	0.01%	
59.267	Unidentified	1652	0.01%	
76.206	Unidentified	1976	0.02%	

Total Identified Compounds **99.45 %**



TIC
28,637,387

