



Essential Oil University

GC/MS Report

Item	Lot
Oregano EO <i>Origanum vulgare</i>	5B
Date	Analyst
1/14/2026	Dr. Robert S. Pappas

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The analysis of this batch sample, Oregano EO, meets the expected chemical profile for authentic essential oil of *Origanum vulgare*. 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: Oregano EO
Botanical Name: Origanum vulgare
Lot Number: 5B
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Turkey
Analysis Date: 1/14/2026
Manufacture Date: November 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-.68
Refractive Index @20°C	USP[831]	1.51269
Specific Gravity @20°C	USP[841]	0.95300



Ret. Time	Component	Ret. Idx.	Conc. %	
4.203	3-Methylbutanal	635	0.01%	
12.373	alpha-Thujene	923	0.49%	
12.797	alpha-Pinene	930	1.27%	ALLERGEN
13.727	Camphene	947	0.04%	
15.365	1-Octen-3-ol	975	0.03%	
15.947	Myrcene	986	0.79%	PROP. 65
16.188	Unidentified	990	0.02%	
16.895	Pseudolimonene	1002	0.04%	
17.043	alpha-Phellandrene	1004	0.04%	
17.186	delta-3-Carene	1006	0.02%	
17.698	alpha-Terpinene	1014	1.43%	ALLERGEN
17.848	ortho-Cymene	1016	0.02%	
18.195	para-Cymene	1022	7.23%	
18.491	Limonene	1026	0.11%	ALLERGEN IFRA
18.603	beta-Phellandrene	1028	0.02%	
18.698	1,8-Cineole	1029	0.31%	
19.582	trans-beta-Ocimene	1043	0.01%	
20.405	gamma-Terpinene	1055	5.55%	
21.230	cis-Linalool oxide (furanoid)	1067	0.02%	
21.345	Pinol	1069	0.01%	
22.229	Terpinolene	1082	0.02%	ALLERGEN
22.308	trans-Linalool oxide (pyranoid)	1084	0.01%	
22.562	para-Cymenene	1087	0.01%	
23.182	Linalool	1097	1.43%	ALLERGEN IFRA
23.418	Hotrienol	1100	0.01%	
28.115	Unidentified	1168	0.01%	
28.230	Borneol	1169	0.25%	
28.826	Terpinen-4-ol	1178	1.3%	
29.258	para-Cymen-8-ol	1184	0.01%	
29.851	alpha-Terpineol	1193	0.08%	ALLERGEN
30.061	Unidentified	1196	0.01%	
32.144	Unidentified	1226	0.01%	
32.789	Thymol methyl ether	1235	0.03%	
33.259	Carvone	1242	0.03%	ALLERGEN IFRA
34.175	Carvenone	1256	0.01%	
36.053	trans-Anethole	1283	0.02%	ALLERGEN
36.280	Thymol	1286	3.94%	
37.005	Carvacrol	1297	71.24%	
37.898	Unidentified	1310	0.05%	
38.431	Unidentified	1318	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
40.048	Unidentified	1343	0.01%	
40.371	Unidentified	1348	0.01%	
41.210	Carvacryl acetate	1361	0.05%	
41.613	Unidentified	1367	0.02%	
41.996	alpha-Copaene	1373	0.02%	
42.124	Geranyl acetate	1375	0.01%	ALLERGEN
42.517	beta-Bourbonene	1381	0.01%	
44.817	beta-Caryophyllene	1416	2.95%	ALLERGEN
45.638	trans-alpha-Bergamotene	1429	0.01%	
45.989	Alloaromadendrene	1435	0.03%	
47.062	alpha-Humulene	1452	0.01%	
49.258	Viridiflorene	1487	0.01%	
50.287	beta-Bisabolene	1504	0.63%	
50.608	gamma-Cadinene	1509	0.04%	
50.910	delta-Cadinene	1514	0.02%	
54.378	Spathulenol	1572	0.03%	
54.705	Caryophyllene oxide	1578	0.07%	
58.141	tau-Cadinol	1638	0.04%	
58.906	Unidentified	1651	0.01%	
72.747	Unidentified	1913	0.03%	
74.145	meta-Camphorene	1941	0.01%	

Total Identified Compounds **99.77 %**



TIC
15,799,182

