



Essential Oil University

GC/MS Report

Item	Lot
Oregano EO <i>Origanum vulgare</i>	5G
Date	Analyst
10/14/2025	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:** 5G**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Turkey**Analysis Date:** 10/14/2025**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 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

-.84

1.51256

0.95308



Ret. Time	Component	Ret. Idx.	Conc. %	
4.220	3-Methylbutanal	636	0.01%	
6.391	Methyl 2-methylbutyrate	770	0%	
10.253	4-Pentenyl acetate	879	0.01%	
12.435	alpha-Thujene	924	0.26%	
12.860	alpha-Pinene	931	1.35%	ALLERGEN
13.409	Thuja-2,4(10)diene	941	0.01%	
13.794	Camphene	948	0.05%	
15.418	1-Octen-3-ol	976	0.05%	
16.015	Myrcene	987	0.88%	PROP. 65
16.264	Unidentified	991	0.01%	
16.966	Pseudolimonene	1003	0.03%	
17.116	alpha-Phellandrene	1005	0.06%	
17.262	delta-3-Carene	1008	0.03%	
17.650	1,4-Cineole	1013	0%	
17.778	alpha-Terpinene	1015	1.5%	ALLERGEN
17.930	ortho-Cymene	1018	0.03%	
18.273	para-Cymene	1023	7.86%	
18.564	Limonene	1027	0.11%	ALLERGEN IFRA
18.677	beta-Phellandrene	1029	0.05%	
18.777	1,8-Cineole	1030	0.2%	
19.654	trans-beta-Ocimene	1044	0.04%	
20.482	gamma-Terpinene	1056	5.51%	
21.299	trans-Sabinene hydrate	1068	0.05%	
21.431	Pinol	1070	0.01%	
22.308	Terpinolene	1084	0.06%	ALLERGEN
22.415	trans-Linalool oxide (furanoid)	1085	0.01%	
22.569	Fenchone	1087	0.03%	
22.628	para-Cymenene	1088	0.03%	
23.262	Linalool	1098	1.51%	ALLERGEN IFRA
23.405	cis-Sabinene hydrate	1100	0.03%	
23.505	Hotrienol	1101	0.02%	
26.614	Camphor	1146	0.01%	ALLERGEN
28.195	Unidentified	1169	0.01%	
28.321	Borneol	1171	0.26%	
28.770	Unidentified	1177	0.01%	
28.916	Terpinen-4-ol	1179	1.42%	
29.342	para-Cymen-8-ol	1185	0.02%	
29.938	alpha-Terpineol	1194	0.1%	ALLERGEN
32.243	Thymol methyl ether	1227	0.06%	
32.871	Carvacrol methyl ether	1237	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
33.338	Carvone	1243	0.03%	ALLERGEN IFRA
35.759	Thymol isomer	1279	0.02%	
36.131	trans-Anethole	1284	0.05%	ALLERGEN
36.363	Thymol	1288	3.35%	
37.100	Carvacrol	1298	70.33%	
37.385	Unidentified	1303	0.01%	
37.993	Unidentified	1312	0.06%	
38.520	Unidentified	1320	0.02%	
40.448	Eugenol	1349	0.01%	ALLERGEN IFRA
41.303	Carvacryl acetate	1362	0.06%	
42.089	alpha-Copaene	1374	0.01%	
43.608	Methyleugenol	1397	0.02%	PROP. 65 IFRA
44.916	beta-Caryophyllene	1418	2.72%	ALLERGEN
45.742	trans-alpha-Bergamotene	1431	0.02%	
45.926	Unidentified	1434	0.02%	
46.088	beta-Copaene	1436	0.06%	
47.165	alpha-Humulene	1454	0.15%	
47.456	Unidentified	1458	0.01%	
48.364	gamma-Murolene	1473	0.01%	
48.506	Unidentified	1475	0.02%	
49.353	Viridiflorene	1489	0.04%	
50.386	beta-Bisabolene	1505	0.69%	
50.706	gamma-Cadinene	1511	0.05%	
51.000	delta-Cadinene	1516	0.03%	
54.477	Spathulenol	1574	0.04%	
54.807	Caryophyllene oxide	1580	0.22%	
56.431	Humulene epoxide II	1607	0.02%	
56.746	1,10-di-epi-Cubenol	1613	0.01%	
58.238	tau-Cadinol	1639	0.05%	
59.001	Unidentified	1653	0.02%	
59.815	Unidentified	1667	0.02%	
71.628	Unidentified	1890	0.03%	
72.845	Unidentified	1915	0.08%	
73.491	Unidentified	1928	0.01%	

Total Identified Compounds **99.69 %**



TIC
21,702,825

