



Essential Oil University

GC/MS Report

Item	Lot
Myrtle EO	1E
<i>Myrtus communis</i>	
Date	Analyst
10/16/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Myrtle EO, meets the expected chemical profile for authentic essential oil of *Myrtus communis*. 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: Myrtle EO
Botanical Name: Myrtus communis
Lot Number: 1E
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Tunisia
Analysis Date: 10/16/2025
Manufacture Date: July 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

+26.76
1.46679
0.89405



Ret. Time	Component	Ret. Idx.	Conc. %	
6.378	Acetylbutyryl	789	0.02%	
10.963	Isobutyl isobutyrate	911	0.16%	
11.362	Hashishene	918	0.02%	
11.629	alpha-Thujene	923	0.26%	
12.068	alpha-Pinene	931	30.94%	ALLERGEN
12.813	alpha-Fenchene	945	0.02%	
12.907	Camphene	947	0.05%	
13.111	Thuja-2,4(10)diene	951	0.01%	
14.157	Sabinene	970	0.1%	
14.451	beta-Pinene	975	0.38%	ALLERGEN
14.818	6-Methyl-hept-5-en-2-one	982	0.01%	
15.079	Myrcene	987	0.36%	PROP. 65
15.842	Isobutyl 2-methylbutyrate	1001	0.11%	
15.966	Pseudolimonene	1003	0.04%	
16.050	Unidentified	1004	0.01%	
16.124	alpha-Phellandrene	1005	0.04%	
16.263	delta-3-Carene	1007	0.02%	
16.651	2-Methylbutyl isobutyrate	1013	0.05%	
16.775	alpha-Terpinene	1015	0.08%	ALLERGEN
17.261	para-Cymene	1023	0.31%	
17.589	Limonene	1028	15.89%	ALLERGEN IFRA
17.778	1,8-Cineole	1031	22.92%	
17.955	cis-beta-Ocimene	1033	0.02%	
18.620	trans-beta-Ocimene	1044	0.1%	
19.397	gamma-Terpinene	1056	0.44%	
20.180	cis-Linalool oxide (furanoid)	1068	0%	
20.300	Pinol	1069	0.01%	
21.182	Terpinolene	1083	0.2%	ALLERGEN
21.255	trans-Linalool oxide (furanoid)	1084	0.01%	
21.515	para-Cymenene	1088	0.01%	
22.149	Linalool	1098	3.65%	ALLERGEN IFRA
22.358	2-Methylbutyl-2-methylbutyrate	1101	0.13%	
22.777	Unidentified	1107	0.01%	
23.445	endo-Fenchol	1117	0.01%	
24.911	trans-Pinocarveol	1138	0.02%	
26.948	delta-Terpineol	1168	0.05%	ALLERGEN
27.060	Borneol	1170	0.01%	
27.528	Unidentified	1176	0.01%	
27.656	Terpinen-4-ol	1178	0.22%	
28.114	para-Cymen-8-ol	1185	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
28.692	alpha-Terpineol	1193	6.08%	ALLERGEN
28.877	Estragole	1196	0.11%	PROP. 65 IFRA
29.040	Unidentified	1198	0.01%	
30.281	trans-Carveol	1217	0.01%	
30.653	Nerol	1222	0.01%	
31.622	Unidentified	1236	0.02%	
32.004	Carvone	1242	0.01%	ALLERGEN IFRA
32.403	Geraniol	1248	0.9%	ALLERGEN IFRA
34.399	Unidentified	1277	0.02%	
34.575	Unidentified	1280	0.01%	
34.693	Bornyl acetate	1281	0.04%	
34.854	Isobornyl acetate	1284	0.01%	
35.451	trans-Pinocarvyl acetate	1293	0.13%	
35.608	Unidentified	1295	0.01%	
36.634	Unidentified	1310	0.01%	
36.899	Unidentified	1314	0.01%	
37.298	Myrtenyl acetate	1321	8.41%	
37.907	delta-Elemene	1330	0.05%	
38.291	Unidentified	1336	0.09%	
38.826	alpha-Terpinyl acetate	1344	1.97%	
38.942	gamma-Terpinyl acetate	1346	0.16%	
39.414	Unidentified	1353	0%	
39.615	Neryl acetate	1356	0.03%	
40.292	alpha-Ylangene	1366	0.01%	
40.713	alpha-Copaene	1373	0.02%	
40.903	Geranyl acetate	1376	2.96%	ALLERGEN
41.263	Unidentified	1381	0.04%	
41.610	beta-Elemene	1386	0.07%	
42.300	Methyleugenol	1397	0.29%	PROP. 65 IFRA
43.501	beta-Caryophyllene	1416	0.62%	ALLERGEN
44.138	Unidentified	1426	0.02%	
45.745	alpha-Humulene	1452	0.27%	
46.014	Alloaromadendrene	1456	0.03%	
46.194	Myrtenyl isobutyrate	1459	0.06%	
46.855	Selina-4,11-diene	1470	0.03%	
47.081	Unidentified	1473	0.02%	
47.220	alpha-Amorphene	1476	0.03%	
47.722	delta-Selinene	1484	0.02%	
47.824	beta-Selinene	1485	0.17%	
47.949	Viridiflorene	1487	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
48.260	alpha-Selinene	1492	0.17%	
48.703	Unidentified	1499	0.01%	
48.800	Unidentified	1501	0.01%	
49.005	Unidentified	1504	0.04%	
49.320	Unidentified	1510	0.06%	
49.609	delta-Cadinene	1515	0.02%	
50.703	Selina-4(15),7(11)-diene	1533	0.01%	
50.970	Unidentified	1538	0.01%	
51.730	Unidentified	1551	0.03%	
51.986	Germacrene B	1555	0.02%	
53.353	Caryophyllene oxide	1578	0.03%	
53.581	Globulol	1582	0.03%	
54.083	Viridiflorol	1590	0.04%	
54.248	Unidentified	1593	0.02%	
54.970	Humulene epoxide II	1606	0%	
57.544	alpha-Eudesmol	1651	0.01%	
59.256	Unidentified	1682	0.05%	

Total Identified Compounds **99.53 %**



TIC
13,766,340

