



Essential Oil University

GC/MS Report

Item	Lot
Lemon EO CP, Pure & Natural <i>Citrus limon</i>	6R
Date	Analyst
10/28/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Lemon EO CP, Pure & Natural, meets the expected chemical profile for authentic essential oil of *Citrus limon*. 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:** Lemon EO CP, Pure & Natural**Botanical Name:** Citrus limon**Lot Number:** 6R**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 10/28/2025**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

+62.24

1.47474

0.85416



Ret. Time	Component	Ret. Idx.	Conc. %	
12.236	Tricyclene	920	0%	
12.381	alpha-Thujene	923	0.37%	
12.806	alpha-Pinene	930	2.58%	ALLERGEN
13.735	Camphene	947	0.06%	
15.026	Sabinene	969	1.75%	
15.354	beta-Pinene	975	13.64%	ALLERGEN
15.958	Myrcene	986	1.48%	PROP. 65
16.844	Octanal	1001	0.04%	
17.054	alpha-Phellandrene	1004	0.04%	
17.718	alpha-Terpinene	1014	0.21%	ALLERGEN
18.209	para-Cymene	1022	0.3%	
18.589	Limonene	1028	63.08%	ALLERGEN IFRA
18.662	beta-Phellandrene	1029	0.28%	
18.735	1,8-Cineole	1030	0.04%	
18.899	cis-beta-Ocimene	1032	0.05%	
19.596	trans-beta-Ocimene	1043	0.09%	
20.425	gamma-Terpinene	1055	11.08%	
21.220	trans-Sabinene hydrate	1067	0.02%	
22.239	Terpinolene	1083	0.37%	ALLERGEN
23.195	Linalool	1097	0.05%	ALLERGEN IFRA
23.308	cis-Sabinene hydrate	1099	0.02%	
23.569	Nonanal	1102	0.04%	
25.509	cis-Limonene oxide	1130	0.01%	
25.803	trans-Limonene oxide	1135	0.01%	
26.837	Citronellal	1149	0.04%	IFRA
28.828	Terpinen-4-ol	1178	0.03%	
29.836	alpha-Terpineol	1192	0.1%	ALLERGEN
30.618	Decanal	1204	0.02%	
31.816	Nerol	1221	0.01%	
32.758	Neral	1235	0.82%	ALLERGEN IFRA
33.595	Geraniol	1247	0.01%	ALLERGEN IFRA
34.783	Geranial	1264	1.48%	ALLERGEN IFRA
35.342	Perillaldehyde	1273	0.01%	IFRA
40.253	Citronellyl acetate	1346	0.01%	IFRA
40.836	Neryl acetate	1355	0.31%	
42.120	Geranyl acetate	1374	0.43%	ALLERGEN
44.407	cis-alpha-Bergamotene	1410	0.02%	
44.827	beta-Caryophyllene	1416	0.17%	ALLERGEN
45.661	trans-alpha-Bergamotene	1430	0.3%	
46.896	trans-beta-Farnesene	1449	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
47.080	alpha-Humulene	1452	0.01%	
47.315	beta-Santalene	1456	0.01%	
48.844	trans-beta-Bergamotene	1480	0.01%	
49.371	Valencene	1489	0.02%	
49.563	Bicyclogermacrene	1492	0.03%	
49.862	cis-alpha-Bisabolene	1497	0.03%	
50.305	beta-Bisabolene	1504	0.44%	
59.179	Unidentified	1656	0.01%	
59.919	Unidentified	1669	0.02%	
60.729	alpha-Bisabolol	1684	0.01%	IFRA
75.334	Citropten	1966	0.04%	

Total Identified Compounds **99.98 %**



TIC
28,325,349

