



Essential Oil University

GC/MS Report

Item	Lot
Lemon Eucalyptus EO <i>Eucalyptus citriodora</i>	5C
Date	Analyst
7/25/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Lemon Eucalyptus EO, meets the expected chemical profile for authentic essential oil of *Eucalyptus citriodora*. 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 Eucalyptus EO**Botanical Name:** Eucalyptus citriodora**Lot Number:** 5C**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** China**Analysis Date:** 7/25/2025**Manufacture Date:** April 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

+0.68

1.45293

0.86695



Ret. Time	Component	Ret. Idx.	Conc. %	
3.591	3-Methylcyclopentene	608	0.02%	
3.735	Unidentified	623	0.01%	
3.981	3-Methylbutanal	648	0.02%	
4.294	trans-3-Penten-2-ol	679	0.02%	
8.915	Unidentified	861	0.01%	
8.980	Unidentified	863	0.01%	
10.979	Isobutyl isobutyrate	911	0.05%	
11.642	alpha-Thujene	924	0.03%	
12.038	alpha-Pinene	931	0.32%	
14.173	Sabinene	970	0.07%	
14.468	beta-Pinene	976	0.69%	
15.098	Myrcene	987	0.1%	
16.138	alpha-Phellandrene	1005	0.01%	
16.468	Isoamyl isobutyrate	1010	0.02%	
16.797	alpha-Terpinene	1015	0.02%	
17.273	para-Cymene	1023	0.04%	
17.564	Limonene	1027	0.14%	IFRA
17.680	beta-Phellandrene	1029	0.02%	
17.740	1,8-Cineole	1030	0.51%	
17.878	Unidentified	1032	0.04%	
17.969	cis-beta-Ocimene	1033	0.07%	
18.641	trans-beta-Ocimene	1044	0.02%	
18.799	Unidentified	1046	0.02%	
19.069	Melonol	1050	0.11%	
19.417	gamma-Terpinene	1056	0.17%	
20.257	para-Mentha-3,8-diene	1069	0.04%	
21.200	Terpinolene	1083	0.2%	
22.154	Linalool	1098	0.13%	IFRA
22.855	cis-Rose oxide	1108	0.04%	
23.951	trans-Rose oxide	1124	0.01%	
24.069	Unidentified	1126	0.04%	
25.478	Isopulegol	1147	3.98%	
25.595	Unidentified	1148	0.06%	
25.864	Citronellal	1152	79%	IFRA
25.960	Unidentified	1154	0.11%	
26.186	Neoisopulegol	1157	2.26%	
26.908	Isoisopulegol	1167	0.25%	
27.544	Neoisoisopulegol	1177	0.06%	
27.677	Terpinen-4-ol	1179	0.03%	
28.682	alpha-Terpineol	1193	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
30.660	Nerol	1222	0.02%	
30.836	Citronellol	1225	5.95%	IFRA
32.424	Geraniol	1248	0.03%	IFRA
33.837	Isopulegyl acetate	1269	0.01%	
36.386	4-Vinyl guaiacol	1307	0.02%	
38.315	Citriodiol	1336	0.44%	
39.052	Citronellyl acetate	1347	2.4%	IFRA
39.758	Unidentified	1358	0.14%	
40.913	Geranyl acetate	1376	0.04%	
41.626	beta-Elemene	1387	0.04%	
41.814	Unidentified	1389	0.08%	
43.519	beta-Caryophyllene	1416	1.13%	
45.760	alpha-Humulene	1452	0.06%	
47.352	Germacrene D	1478	0.08%	
48.240	Bicyclogermacrene	1492	0.09%	
53.367	Caryophyllene oxide	1578	0.02%	
71.859	Citriodiol acetal isomer	1924	0.41%	
74.375	Citriodiol acetal isomer	1976	0.06%	
103.832	Citriodiol acetal isomer	2686	0.16%	

Total Identified Compounds **99.45 %**

