



Essential Oil University

GC/MS Report

Item	Lot
Lemon Eucalyptus EO <i>Eucalyptus citriodora</i>	1C
Date	Analyst
3/4/2025	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:** 1C**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** China**Analysis Date:** 3/4/2025**Manufacture Date:** February 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

-.04

1.45543

0.87216



Ret. Time	Component	Ret. Idx.	Conc. %	
3.573	3-Methylcyclopentene	606	0.01%	
3.963	3-Methylbutanal	646	0.01%	
8.893	Unidentified isomer I	861	0.01%	
8.952	Unidentified isomer I	862	0.01%	
10.951	Isobutyl isobutyrate	911	0.05%	
11.614	alpha-Thujene	923	0.02%	
12.010	alpha-Pinene	930	0.29%	
14.141	Sabinene	970	0.05%	
14.438	beta-Pinene	975	0.49%	
15.067	Myrcene	987	0.1%	
16.435	Isoamyl isobutyrate	1010	0.02%	
16.637	2-Methylbutyl isobutyrate	1013	0.01%	
16.761	alpha-Terpinene	1015	0.01%	
17.241	para-Cymene	1022	0.02%	
17.532	Limonene	1027	0.14%	IFRA
17.650	beta-Phellandrene	1029	0.02%	
17.709	1,8-Cineole	1029	0.81%	
17.843	Dihydromyrcenol	1032	0.04%	
17.933	cis-beta-Ocimene	1033	0.04%	
18.605	trans-beta-Ocimene	1043	0.03%	
18.754	Unidentified	1046	0.02%	
19.028	Melonol	1050	0.11%	
19.382	gamma-Terpinene	1055	0.12%	
20.224	para-Mentha-3,8-diene	1068	0.04%	
21.169	Terpinolene	1083	0.06%	
22.119	Linalool	1097	0.48%	IFRA
22.818	cis-Rose oxide	1108	0.05%	
23.210	Unidentified	1113	0.01%	
23.918	trans-Rose oxide	1124	0.02%	
24.045	Unidentified	1126	0.03%	
25.458	Isopulegol	1146	4.9%	
25.571	para-Menth-3-en-8-ol	1148	0.07%	
25.881	Citronellal	1152	67.49%	IFRA
26.178	Neoisopulegol	1157	3.62%	
26.612	Isomenthone	1163	0.02%	
26.884	Isoisopulegol	1167	0.25%	
27.031	Unidentified	1169	0.01%	
27.515	Neoisoisopulegol	1176	0.06%	
27.651	Terpinen-4-ol	1178	0.02%	
28.648	alpha-Terpineol	1193	0.09%	



Ret. Time	Component	Ret. Idx.	Conc. %	
29.826	trans-Pulegol	1210	0.02%	
30.629	Nerol	1222	0.02%	
30.801	Citronellol	1224	3.07%	IFRA
32.392	Geraniol	1248	0.03%	IFRA
32.903	Methyl citronellate	1255	0.04%	
36.210	Citronellic acid	1304	0.05%	
36.340	4-Vinyl guaiacol	1306	0.06%	
36.660	Unidentified	1311	0.01%	
38.288	Citriodiol	1336	0.6%	
39.019	Citronellyl acetate	1347	0.7%	IFRA
39.736	Citriodiol isomer	1358	0.35%	
40.390	Citriodiol isomer	1368	0.01%	
40.881	Geranyl acetate	1375	0.01%	
41.589	beta-Elemene	1386	0.02%	
41.793	Unidentified	1389	0.08%	
42.282	Methyleugenol	1397	0.09%	IFRA
43.488	beta-Caryophyllene	1416	0.58%	
45.735	alpha-Humulene	1452	0.04%	
47.316	Germacrene D	1477	0.03%	
48.210	Bicyclogermacrene	1492	0.03%	
49.599	delta-Cadinene	1515	0.02%	
53.338	Caryophyllene oxide	1578	0.02%	
69.430	Unidentified isomer II	1875	0.25%	
69.924	Unidentified isomer II	1885	0.37%	
70.448	Unidentified	1895	0.04%	
71.850	Citriodiol acetate	1923	5.35%	
72.437	Citriodiol acetal isomer	1936	0.18%	
73.178	Citriodiol acetal isomer	1951	0.07%	
73.982	Unidentified isomer II	1967	0.58%	
74.305	Citriodiol acetal isomer	1974	0.58%	
74.350	Citriodiol acetal isomer	1975	0.75%	
74.469	Citriodiol acetal isomer	1977	0.22%	
74.550	Citriodiol acetal isomer	1979	0.26%	
74.848	Citriodiol acetal isomer	1985	0.08%	
75.218	Citriodiol acetal isomer	1993	0.06%	
76.930	Citriodiol acetal isomer	2029	0.02%	
77.156	Citriodiol acetal isomer	2034	0.01%	
77.923	Citriodiol acetal isomer	2051	0.02%	
78.180	Citriodiol acetal isomer	2056	0.1%	
78.294	Unidentified	2059	0.17%	



Ret. Time	Component	Ret. Idx.	Conc. %	
78.455	Citriodiol acetal isomer	2062	0.02%	
78.621	Citriodiol acetal isomer	2066	0.11%	
79.029	Unidentified isomer III	2075	0.05%	
79.133	Unidentified isomer III	2077	0.07%	
79.271	Citriodiol acetal isomer	2080	0.02%	
79.451	Citriodiol acetal isomer	2084	0.02%	
80.134	Unidentified	2098	0.02%	
80.845	Unidentified	2114	0.04%	
80.986	Citriodiol acetal isomer	2117	0.15%	
81.057	Unidentified	2119	0.16%	
96.228	Citriodiol acetal isomer	2482	0.02%	
97.144	Citriodiol acetal isomer	2506	0.02%	
100.568	Citriodiol acetal isomer	2596	0.13%	
100.715	Citriodiol acetal isomer	2600	0.45%	
100.745	Citriodiol acetal isomer	2601	0.23%	
100.845	Citriodiol acetal isomer	2604	0.31%	
101.016	Citriodiol acetal isomer	2609	0.73%	
101.090	Citriodiol acetal isomer	2611	0.29%	
101.694	Citriodiol acetal isomer	2627	0.05%	
103.819	Unidentified isomer III	2685	2.45%	
105.874	Citriodiol acetal isomer	2743	0.03%	

Total Identified Compounds **95.63 %**

