



Essential Oil University

GC/MS Report

Item	Lot
Litsea cubeba EO, Pure & Natural <i>Litsea cubeba</i>	1L
Date	Analyst
11/18/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Litsea cubeba EO, Pure & Natural, meets the expected chemical profile for authentic essential oil of *Litsea cubeba*. 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:** Litsea cubeba EO, Pure & Natural**Botanical Name:** Litsea cubeba**Lot Number:** 1L**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** China**Analysis Date:** 11/18/2025**Manufacture Date:** March 2024

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

+9.84

1.48599

0.89755



Ret. Time	Component	Ret. Idx.	Conc. %	
3.146	2-Propanone	627	0.05%	
9.407	Unidentified	855	0.01%	
9.469	1-Isopropyl-3-methylcyclopentane	856	0.01%	
11.464	Unidentified	904	0.01%	
12.247	alpha-Thujene	918	0.02%	
12.662	alpha-Pinene	925	1.09%	ALLERGEN
13.580	Camphene	941	0.27%	
14.860	Sabinene	964	0.63%	
15.169	beta-Pinene	969	0.75%	ALLERGEN
15.472	6-Methyl-hept-5-en-2-one	974	1.22%	
15.798	Myrcene	980	0.2%	PROP. 65
15.874	Unidentified	982	0.05%	
16.006	6-Methyl-hept-5-en-2-ol	984	0.03%	
17.017	delta-3-Carene	1001	0.23%	
17.408	1,4-Cineole	1007	0.02%	
17.539	alpha-Terpinene	1009	0.01%	ALLERGEN
18.020	para-Cymene	1016	0.08%	
18.344	Limonene	1021	13.39%	ALLERGEN IFRA
18.520	1,8-Cineole	1024	1.45%	
18.650	Unidentified	1026	0.01%	
18.717	cis-beta-Ocimene	1027	0.02%	
19.410	trans-beta-Ocimene	1037	0.02%	
19.848	Melonal	1044	0.02%	
20.212	gamma-Terpinene	1049	0.04%	
21.017	trans-Sabinene hydrate	1061	0.05%	
22.027	Terpinolene	1077	0.06%	ALLERGEN
22.115	trans-Linalool oxide (furanoid)	1078	0.01%	
22.437	Rosefuran	1083	0.02%	
22.971	Linalool	1091	1.65%	ALLERGEN IFRA
23.629	Unidentified	1101	0.04%	
24.503	trans-para-Mentha-2,8-dien-1-ol	1113	0.02%	
25.264	cis-Limonene oxide	1124	0.06%	
25.515	Unidentified	1128	0.01%	
25.559	trans-Limonene oxide	1128	0.04%	
25.968	exo-Isocitral	1134	0.1%	IFRA
26.354	Unidentified	1140	0.04%	
26.589	Citronellal	1143	1.31%	IFRA
27.221	Isoneral	1152	0.27%	IFRA
27.793	Isoborneol	1160	0.05%	
27.835	Unidentified	1161	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %	
27.974	Borneol	1163	0.07%	
28.527	trans-Isocitral	1171	0.58%	
28.580	Unidentified	1172	0.23%	
29.340	Methyl salicylate	1182	0.02%	ALLERGEN
29.455	Unidentified	1184	0.02%	
29.582	alpha-Terpineol	1186	0.56%	ALLERGEN
29.926	cis-Piperitol	1191	0.06%	
30.393	Unidentified	1198	0.05%	
31.156	trans-Piperitol	1209	0.04%	
31.579	Nerol	1215	0.44%	
31.762	Citronellol	1217	0.33%	ALLERGEN IFRA
31.938	Unidentified	1220	0.02%	
32.619	Neral	1230	28.67%	ALLERGEN IFRA
32.975	Carvone	1235	0.02%	ALLERGEN IFRA
33.351	Geraniol	1240	1.15%	ALLERGEN IFRA
33.613	Piperitone	1244	0.11%	
34.681	Geranial	1260	40.09%	ALLERGEN IFRA
34.944	Citronellyl formate	1264	0.06%	
35.147	Linalyl formate	1267	0.07%	
35.277	Unidentified	1268	0.04%	
35.486	trans-Carvone oxide	1271	0.19%	IFRA
35.657	Unidentified	1274	0.02%	
35.690	Unidentified	1274	0.02%	
36.615	Geranyl formate	1288	0.09%	
37.076	Citronellic acid	1295	0.01%	
37.622	Neric acid	1303	0.02%	
38.998	Unidentified	1323	0.16%	
39.710	Unidentified	1334	0.09%	
39.799	Unidentified	1336	0.17%	
40.610	Neryl acetate	1348	0.07%	
40.774	Unidentified	1350	0.11%	
41.379	Unidentified	1359	0.25%	
41.776	alpha-Copaene	1365	0.08%	
41.894	Geranyl acetate	1367	0.17%	ALLERGEN
42.208	Unidentified	1372	0.02%	
42.666	beta-Elemene	1379	0.14%	
44.593	beta-Caryophyllene	1409	1.14%	ALLERGEN
44.915	Unidentified	1414	0.02%	
45.342	Unidentified	1420	0.04%	
46.845	alpha-Humulene	1444	0.12%	



Ret. Time	Component	Ret. Idx.	Conc. %	
49.165	Unidentified	1481	0.03%	
49.335	Unidentified	1484	0.02%	
50.084	beta-Bisabolene	1496	0.03%	
50.701	delta-Cadinene	1506	0.03%	
50.910	Unidentified	1510	0.03%	
51.156	Unidentified	1514	0.04%	
54.156	Spathulenol	1564	0.04%	
54.480	Caryophyllene oxide	1569	0.32%	
56.104	Humulene epoxide II	1597	0.02%	
64.694	Benzyl benzoate	1751	0.03%	ALLERGEN IFRA
67.904	Pentadecanolide	1811	0.02%	IFRA
77.782	Unidentified	2009	0.02%	
77.959	Unidentified	2013	0.02%	
78.971	Unidentified	2034	0.09%	
79.395	Unidentified	2043	0.06%	
80.427	Unidentified	2066	0.02%	
80.595	Unidentified	2069	0.07%	
81.022	Unidentified	2078	0.02%	
81.255	Unidentified	2083	0.02%	
82.705	Unidentified	2115	0.07%	
83.092	Unidentified	2124	0.04%	

Total Identified Compounds **97.98 %**



TIC
15,055,157

