



Essential Oil University

GC/MS Report

Item	Lot
Cajeput EO <i>Melaleuca cajuputi</i>	1R
Date	Analyst
1/21/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cajeput EO, meets the expected chemical profile for authentic essential oil of *Melaleuca cajuputi*. 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:** Cajeput EO**Botanical Name:** Melaleuca cajuputi**Lot Number:** 1R**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Australia**Analysis Date:** 1/21/2025**Manufacture Date:** November 2021

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

-2.32

1.47058

0.91301



Ret. Time	Component	Ret. Idx.	Conc. %	
4.055	3-Methylbutanal	725	0.01%	
4.160	2-Methylbutanal	728	0.03%	
5.269	2-Methylbutanol	756	0.01%	
6.105	Methyl 2-methylbutyrate	777	0.03%	
6.538	Isopropyl ketone	788	0.02%	
11.916	alpha-Thujene	916	0.49%	
12.325	alpha-Pinene	924	3%	
13.121	alpha-Fenchene	938	0.01%	
13.218	Camphene	939	0.03%	
13.855	Benzaldehyde	951	0.06%	IFRA
14.485	Sabinene	962	0.03%	
14.790	beta-Pinene	967	2.01%	
15.422	Myrcene	978	0.93%	
16.333	Pseudolimonene	995	0.06%	
16.478	alpha-Phellandrene	997	0.15%	
16.626	delta-3-Carene	1000	0.05%	
17.140	alpha-Terpinene	1008	0.6%	
17.627	para-Cymene	1015	1%	
17.952	Limonene	1020	6.3%	IFRA
18.180	1,8-Cineole	1023	51.28%	
19.000	trans-beta-Ocimene	1036	0.02%	
19.786	gamma-Terpinene	1048	3.11%	
21.590	Terpinolene	1075	1.52%	
21.908	para-Cymenene	1080	0.03%	
22.532	Linalool	1089	0.28%	IFRA
23.246	cis-Rose oxide	1100	0.02%	
23.855	endo-Fenchol	1109	0.01%	
25.875	Isopulegol	1138	0.01%	
27.368	delta-Terpineol	1159	0.17%	
27.480	Borneol	1161	0.01%	
27.950	Geranial	1167	0.06%	IFRA
28.088	Terpinen-4-ol	1169	0.79%	
28.522	para-Cymen-8-ol	1176	0.02%	
29.131	alpha-Terpineol	1184	8.73%	
31.234	Citronellol	1215	0.02%	IFRA
32.849	Geraniol	1238	0.01%	IFRA
37.093	alpha-Terpineol	1300	0.02%	
38.561	delta-Elementene	1322	0.02%	
39.287	alpha-Terpinyl acetate	1333	1.15%	
39.586	Eugenol	1338	0.01%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
40.791	alpha-Ylangene	1356	0.18%	
41.214	alpha-Copaene	1363	0.14%	
41.360	Geranyl acetate	1365	0.01%	
42.101	beta-Elemene	1376	0.12%	
42.247	Sativene	1378	0.01%	
43.054	cis-beta-Caryophyllene	1390	0.01%	
43.227	alpha-Gurjunene	1393	0.08%	
43.470	Unidentified	1397	0.01%	
44.015	beta-Caryophyllene	1405	5%	
44.630	gamma-Elemene	1415	0.1%	
44.920	Unidentified	1420	0.01%	
44.996	alpha-Guaiene	1421	0.02%	
45.190	Aromadendrene	1424	0.11%	
45.284	Unidentified	1426	0.03%	
45.377	alpha-Gurjunene	1427	0.07%	
45.640	Unidentified	1431	0.02%	
45.730	Cadina-1(6),4-diene	1433	0.06%	
45.849	6,9-Guaiadiene	1435	0.05%	
45.965	Unidentified	1436	0.01%	
46.086	Valerena-4,7(11)-diene	1438	0.05%	
46.254	alpha-Humulene	1441	2.31%	
46.528	Alloaromadendrene	1445	0.32%	
47.157	Unidentified	1455	0.05%	
47.360	Selina-4,11-diene	1459	0.29%	
47.580	Unidentified	1462	0.34%	
47.729	alpha-Murolene	1465	0.35%	
48.058	Unidentified	1470	0.07%	
48.224	delta-Selinene	1472	0.37%	
48.335	beta-Selinene	1474	1.77%	
48.465	Viridiflorene	1476	0.31%	
48.545	Unidentified	1478	0.07%	
48.773	alpha-Selinene	1481	1.63%	
48.933	alpha-Amorphene	1484	0.09%	
49.196	delta-Amorphene + cis-beta-Guaiene	1488	0.34%	
49.552	Unidentified	1494	0.01%	
49.805	gamma-Cadinene	1498	0.1%	
50.116	delta-Cadinene	1503	0.27%	
50.380	Zonarene	1507	0.04%	
50.956	Unidentified	1517	0.04%	
51.211	Selina-4(15),7(11)-diene	1521	0.14%	



Ret. Time	Component	Ret. Idx.	Conc. %	
51.489	Selina-3,7(11)-diene	1526	0.15%	
52.506	Germacrene B	1543	0.15%	
52.699	Unidentified	1546	0.05%	
53.196	Palustrol	1555	0.03%	
53.866	Caryophyllene oxide	1566	0.2%	
54.094	Globulol	1570	0.45%	
54.595	Viridiflorol	1578	0.64%	
54.726	Guaiol	1580	0.19%	
54.870	Unidentified	1583	0.01%	
55.191	Ledol	1588	0.1%	
55.318	Unidentified	1590	0.02%	
55.486	Humulene epoxide II	1593	0.08%	
55.560	Unidentified	1594	0.03%	
55.928	Intermedeol	1601	0.04%	
56.304	Eudesm-5-en-11-ol	1607	0.02%	
56.417	Unidentified	1609	0.07%	
56.520	Unidentified	1611	0.03%	
56.653	Unidentified	1613	0.02%	
56.745	gamma-Eudesmol	1615	0.07%	
56.870	Unidentified	1617	0.1%	
57.031	Caryophylla-4(12),8(13)-dien-5-beta-ol	1620	0.01%	
57.318	tau-Cadinol	1625	0.02%	
58.058	alpha-Eudesmol	1638	0.29%	
58.218	Unidentified	1641	0.09%	
58.610	Bulnesol	1648	0.02%	

Total Identified Compounds **98.91 %**

