



Essential Oil University

GC/MS Report

Item	Lot
Cajeput EO <i>Melaleuca cajuputi</i>	2A
Date	Analyst
7/25/2025	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:** 2A**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Australia**Analysis Date:** 7/25/2025**Manufacture Date:** December 2022

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

-1.92

1.47055

0.91425



Ret. Time	Component	Ret. Idx.	Conc. %	
5.480	2-Methylbutanol	727	0.01%	
6.351	Methyl 2-methylbutyrate	764	0.04%	
6.800	Isopropyl ketone	783	0.01%	
12.342	alpha-Thujene	919	0.58%	
12.759	alpha-Pinene	927	3.7%	
13.684	Camphene	943	0.04%	
14.336	Benzaldehyde	955	0.12%	IFRA
14.966	Sabinene	966	0.03%	
15.278	beta-Pinene	971	2.3%	
15.905	Myrcene	982	0.91%	
16.845	Pseudolimonene	999	0.07%	
16.991	alpha-Phellandrene	1001	0.19%	
17.137	delta-3-Carene	1003	0.05%	
17.659	alpha-Terpinene	1011	0.74%	
18.142	para-Cymene	1018	2.09%	
18.456	Limonene	1023	8.19%	IFRA
18.560	beta-Phellandrene	1025	0.07%	
18.667	1,8-Cineole	1026	50.58%	
19.541	trans-beta-Ocimene	1039	0.03%	
20.342	gamma-Terpinene	1051	3.56%	
22.167	Terpinolene	1079	1.71%	
22.481	para-Cymenene	1083	0.05%	
23.118	Linalool	1093	0.23%	IFRA
23.857	cis-Rose oxide	1104	0.01%	
28.010	delta-Terpineol	1163	0.14%	
28.587	Unidentified	1172	0.05%	
28.734	Terpinen-4-ol	1174	0.83%	
29.149	para-Cymen-8-ol	1180	0.02%	
29.738	alpha-Terpineol	1188	8.82%	
31.882	Unidentified	1219	0.02%	
39.979	alpha-Terpinyl acetate	1338	0.87%	
40.246	Eugenol	1342	0.03%	IFRA
41.509	alpha-Ylangene	1361	0.14%	
41.933	alpha-Copaene	1368	0.1%	
42.814	beta-Elemene	1381	0.08%	
43.962	alpha-Gurjunene	1399	0.07%	
44.749	beta-Caryophyllene	1411	3.81%	
45.346	gamma-Elemene	1421	0.04%	
45.927	beta-Copaene	1430	0.09%	
46.115	Unidentified	1433	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %
46.462	Unidentified	1438	0.01%
46.590	Alloaromadendrene	1440	0.03%
46.808	Valerna-4,7(11)-diene	1444	0.06%
46.998	alpha-Humulene	1447	1.81%
47.274	Alloaromodendrene	1451	0.27%
47.915	Unidentified	1461	0.11%
48.099	Selina-4,11-diene	1464	0.27%
48.328	Unidentified	1468	0.34%
48.468	alpha-Muurolene	1470	0.31%
48.795	Unidentified	1475	0.03%
48.965	delta-Selinene	1478	0.32%
49.085	beta-Selinene	1480	1.49%
49.201	Viridiflorene	1482	0.26%
49.300	Unidentified	1483	0.06%
49.517	alpha-Selinene	1487	1.42%
49.671	alpha-Amorphene	1489	0.07%
49.943	delta-Amorphene	1494	0.2%
50.015	cis-beta-Guaiene	1495	0.07%
50.549	gamma-Cadinene	1504	0.1%
50.637	Unidentified	1505	0.13%
50.847	delta-Cadinene	1509	0.23%
51.135	Unidentified	1513	0.03%
51.699	Unidentified	1523	0.03%
51.969	Selina-4(15),7(11)-diene	1527	0.11%
52.233	Selina-3,7(11)-diene	1532	0.13%
53.276	Germacrene B	1549	0.11%
53.466	Unidentified	1552	0.03%
54.636	Caryophyllene oxide	1572	0.14%
54.852	Globulol	1576	0.3%
55.357	Viridiflorol	1584	0.44%
55.482	Guaiol	1586	0.11%
55.958	Ledol	1594	0.07%
56.257	Humulene epoxide II	1599	0.05%
57.182	Intermedeol	1616	0.03%
57.508	Unidentified	1621	0.02%
57.637	Unidentified	1624	0.05%
58.817	alpha-Eudesmol	1644	0.17%
58.987	Unidentified	1647	0.05%
60.516	Unidentified	1674	0.07%

Total Identified Compounds **98.92 %**

