



Essential Oil University

GC/MS Report

Ylang Complete Oil, Madagascar

Cananga odorata var. genuina

Item	Lot
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2C

Date	Analyst
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6/10/2025	Dr. Robert S. Pappas
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The analysis of this batch sample, Ylang Complete Oil, Madagascar, meets the expected chemical profile for authentic essential oil of *Cananga odorata var. genuina*. 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:** Ylang Complete Oil, Madagascar**Botanical Name:** Cananga odorata var. genuina**Lot Number:** 2C**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Madagascar**Analysis Date:** 6/10/2025**Manufacture Date:** May 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

-36.80

1.50131

0.93099



Ret. Time	Component	Ret. Idx.	Conc. %	
3.560	Unidentified	605	0.02%	
9.525	4-Pentenyl acetate	878	0.01%	
10.892	Amyl acetate	910	0.12%	
11.275	Prenyl acetate	917	0.45%	
12.000	alpha-Pinene	930	0.11%	
13.537	Benzaldehyde	958	0.02%	IFRA
14.428	beta-Pinene	975	0.03%	
15.052	Myrcene	986	0.06%	
15.972	Hex-(3Z)-enyl acetate	1003	0.04%	
16.412	Hexyl acetate	1010	0.06%	
16.964	para-Methylanisole	1018	3.05%	
17.523	Limonene	1027	0.02%	IFRA
17.700	1,8-Cineole	1029	0.09%	
17.773	Benzyl alcohol	1030	0.03%	IFRA
18.593	trans-beta-Ocimene	1043	0.02%	
20.166	cis-Linalool oxide (furanoid)	1067	0.01%	
20.255	para-Cresol	1069	0.03%	IFRA
21.171	Terpinolene	1083	0.01%	
21.225	trans-Linalool oxide (furanoid)	1084	0.01%	
21.752	Methyl benzoate	1092	1.71%	
22.149	Linalool	1098	5.02%	IFRA
26.392	Benzyl acetate	1160	3.73%	
26.920	Ethyl benzoate	1167	0.03%	
28.401	Methyl salicylate	1189	0.02%	
28.640	alpha-Terpineol	1193	0.09%	
28.852	Estragole	1196	0.07%	IFRA
30.617	Nerol	1222	0.03%	
31.561	Neral	1235	0.02%	IFRA
32.388	Geraniol	1248	0.98%	IFRA
32.633	2-Phenethyl acetate	1251	0.09%	
33.579	Geranial	1265	0.04%	IFRA
34.829	trans-Anethole	1283	0.13%	
35.613	1-nitro-2-Phenyl ethane	1295	0.04%	
36.343	4-vinyl-Guaiacol	1306	0.02%	
37.465	Unidentified	1323	0.02%	
37.858	Elemene isomer	1329	0.05%	
37.993	Unidentified + Unidentified	1331	0.09%	
38.834	alpha-Cubebene	1344	0.17%	
39.111	Eugenol	1348	0.55%	IFRA
39.599	Neryl acetate	1356	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %	
40.053	Unidentified	1363	0.01%	
40.279	alpha-Ylangene	1366	0.13%	
40.595	Unidentified	1371	0.02%	
40.702	alpha-Copaene	1372	1.09%	
40.924	Geranyl acetate	1376	7.48%	
41.218	Unidentified	1380	0.03%	
41.495	beta-Cubebene	1385	0.11%	
41.606	beta-Elemene	1386	0.46%	
41.901	Unidentified	1391	0.04%	
42.294	Methyleugenol	1397	0.02%	IFRA
42.445	Cyperene	1399	0.01%	
42.957	Ylangene isomer	1407	0.02%	
43.420	beta-Ylangene	1415	0.1%	
43.550	beta-Caryophyllene	1417	14.1%	
43.809	Unidentified	1421	0.02%	
44.143	beta-Copaene	1426	0.43%	
44.674	Aromadendrene	1435	0.04%	
45.116	trans-Cinnamyl acetate	1442	1.51%	
45.185	trans-Isoeugenol	1443	0.12%	IFRA
45.340	cis-Murrola-4(14),5-diene	1445	0.28%	
45.459	trans-Murrola-3,5-diene	1447	0.11%	
45.625	trans-beta-Farnesene	1450	0.07%	
45.750	alpha-Humulene	1452	3.88%	
45.896	Unidentified	1454	0.04%	
46.004	cis-Murrola-4(14),5-diene	1456	0.06%	
46.150	cis-Cadina-1(6),4-diene	1458	0.18%	
46.784	trans-Cadina-1(6),4-diene	1469	0.27%	
46.994	gamma-Murolene	1472	1.85%	
47.305	alpha-Amorphene	1477	1.26%	
47.398	Germacrene D	1478	16.05%	
47.470	gamma-Himachalene	1480	0.08%	
47.848	Prenyl benzoate	1486	0.14%	
47.965	gamma-Amorphene	1488	0.11%	
48.027	trans-Murola-4(14),5-diene	1489	0.75%	
48.220	Bicyclogermacrene	1492	0.45%	
48.420	alpha-Murolene	1495	1.1%	
48.630	cis,trans-alpha-Farnesene	1498	2.28%	
48.834	trans,trans-alpha-Farnesene	1502	8.33%	
49.019	Unidentified	1505	0.05%	
49.297	gamma-Cadinene	1509	0.93%	



Ret. Time	Component	Ret. Idx.	Conc. %	
49.623	delta-Cadinene	1515	3.27%	
49.830	cis-Calamenene	1518	0.04%	
49.880	Zonarene	1519	0.18%	
50.116	trans-gamma-Bisabolene	1523	0.02%	
50.453	trans-Cadine-1,4-diene	1529	0.21%	
50.700	alpha-Cadinene	1533	0.24%	
50.888	Dracunculifolol analogue + Unidentified	1536	0.04%	
51.367	Elemol	1544	0.04%	
52.139	trans-Nerolidol	1557	0.16%	
52.728	Hex-(3Z)-enyl benzoate	1567	0.02%	
53.051	Unidentified	1573	0.06%	
53.357	10-epi-Junenol	1578	0.11%	
53.566	Globulol	1582	0.07%	
53.660	Gleenol	1583	0.02%	
53.822	Unidentified	1586	0.1%	
54.010	Unidentified + Unidentified	1589	0.13%	
54.211	Guaiol	1592	0.06%	
54.797	Rosifolol	1602	0.02%	
55.110	Unidentified	1608	0.01%	
55.282	1,10-di-epi-Cubenol	1611	0.07%	
55.672	Humulane-1,6-dien-3-ol	1618	0.29%	
55.795	Unidentified	1620	0.03%	
55.995	1-Epicubenol	1624	0.25%	
56.224	gamma-Eudesmol	1628	0.03%	
56.354	Cubenol isomer	1630	0.11%	
56.510	Unidentified	1633	0.03%	
56.634	Unidentified	1635	0.04%	
56.810	tau-Cadinol	1638	0.6%	
56.911	epi-alpha-Cadinol	1640	0.87%	
57.062	delta-Cadinol	1643	0.34%	
57.202	Cadinol isomer	1645	0.06%	
57.560	alpha-Cadinol	1652	1.73%	
57.710	Unidentified	1654	0.03%	
58.391	Striatol	1666	0.11%	
58.776	Unidentified	1673	0.03%	
60.867	(2E,6E)-Farnesol	1711	1.2%	IFRA
61.576	Unidentified	1724	0.01%	
63.645	Benzyl benzoate	1763	5.39%	IFRA
63.927	Methylphenyl benzoate isomer	1768	0.01%	
67.078	(2E,6E)-Farnesyl acetate	1829	1.3%	



Ret. Time	Component	Ret. Idx.	Conc. %	
68.891	Benzyl salicylate	1864	1.36%	IFRA
73.475	Geranyl benzoate	1957	0.08%	
79.833	Benzyl cinnamate	2092	0.1%	IFRA

Total Identified Compounds **99.15 %**

