



Essential Oil University

GC/MS Report

Ylang Complete Oil, Madagascar

Cananga odorata var. genuina

Item	Lot
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8F

Date	Analyst
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10/27/2025	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:** 8F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Madagascar**Analysis Date:** 10/27/2025**Manufacture Date:** August 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

-36.64

1.50140

0.93110



Ret. Time	Component	Ret. Idx.	Conc. %	
11.681	Amyl acetate	910	0.12%	
12.078	Prenyl acetate	917	0.43%	
12.867	alpha-Pinene	931	0.11%	ALLERGEN
14.458	Benzaldehyde	959	0.02%	ALLERGEN IFRA
15.406	beta-Pinene	976	0.03%	ALLERGEN
16.026	Myrcene	987	0.08%	PROP. 65
16.973	Hex-(3Z)-enyl acetate	1003	0.04%	
17.409	Hexyl acetate	1010	0.07%	
17.975	para-Methylanisole	1018	2.88%	
18.574	Limonene	1027	0.03%	ALLERGEN IFRA
18.715	beta-Phellandrene	1029	0%	
18.787	1,8-Cineole	1031	0.12%	
18.969	cis-beta-Ocimene	1033	0.02%	
19.669	trans-beta-Ocimene	1044	0.02%	
21.305	para-Cresol	1068	0.05%	IFRA
22.317	Terpinolene	1084	0.01%	ALLERGEN
22.389	cis-Linalool oxide (furanoid)	1085	0.01%	
22.902	Methyl benzoate	1092	1.69%	
23.289	Linalool	1098	5.01%	ALLERGEN IFRA
27.598	Benzyl acetate	1160	3.58%	
28.151	Ethyl benzoate	1168	0.03%	
29.655	Methyl salicylate	1190	0.02%	ALLERGEN
29.910	alpha-Terpineol	1194	0.09%	ALLERGEN
30.108	Estragole	1196	0.07%	PROP. 65 IFRA
31.888	Nerol	1222	0.02%	
32.839	Neral	1236	0.02%	ALLERGEN IFRA
33.650	Geraniol	1248	0.87%	ALLERGEN IFRA
33.919	2-Phenethyl acetate	1252	0.07%	
34.864	Geranial	1266	0.03%	ALLERGEN IFRA
36.130	trans-Anethole	1284	0.12%	ALLERGEN
36.932	1-Nitro-2-phenylethane	1296	0.03%	
37.639	4-Vinyl guaiaicol	1306	0.02%	
38.813	Unidentified isomer I	1324	0.02%	
39.236	gamma-Elemene	1331	0.05%	
39.349	Unidentified isomer I	1332	0.08%	
40.203	alpha-Cubebene	1345	0.18%	
40.431	Eugenol	1349	0.5%	ALLERGEN IFRA
40.721	Unidentified	1353	0.01%	
40.915	Neryl acetate	1356	0.03%	
41.435	Unidentified	1364	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.669	alpha-Ylangene	1368	0.15%	
41.941	Butyl benzoate	1372	0.02%	
42.097	alpha-Copaene	1374	1.02%	
42.228	Geranyl acetate	1376	7.68%	ALLERGEN
42.493	Elemene isomer	1380	0.03%	
42.609	Unidentified	1382	0.04%	
42.910	beta-Cubebene	1386	0.11%	
42.978	beta-Elemene	1388	0.47%	
43.180	Unidentified	1391	0.02%	
43.294	Unidentified	1392	0.04%	
43.611	Methyleugenol	1397	0.02%	PROP. 65 IFRA
43.883	Cyperene	1401	0.02%	
44.959	beta-Caryophyllene	1418	13.37%	ALLERGEN
45.050	Caryophyllene	1420	0.04%	ALLERGEN
45.224	Unidentified	1423	0.03%	
45.415	Unidentified	1426	0.01%	
45.561	beta-Copaene	1428	0.44%	
45.812	Unidentified	1432	0.06%	
46.091	Aromadendrene	1437	0.04%	
46.462	trans-Cinnamyl acetate	1442	1.52%	
46.765	cis-Murrola-3,5-diene	1447	0.27%	
46.880	trans-Murrola-3,5-diene	1449	0.12%	
46.975	trans-beta-Farnesene	1451	0.09%	
47.183	alpha-Humulene	1454	3.74%	
47.330	Unidentified	1456	0.04%	
47.429	cis-Cadina-1(6),4-diene	1458	0.06%	
47.573	cis-Muurolo-4(14),5-diene	1460	0.19%	
48.197	trans-Cadina-1(6),4-diene	1470	0.27%	
48.386	gamma-Murolene	1473	1.84%	
48.807	Germacrene D	1480	16.21%	
48.885	Unidentified	1481	0.09%	
49.238	Prenyl benzoate	1487	0.14%	
49.450	trans-Muurolo-4(14),5-diene	1490	0.89%	
49.653	Bicyclogermacrene	1493	0.46%	
49.834	alpha-Murolene	1496	1.14%	
50.037	cis,trans-alpha-Farnesene	1499	2.1%	
50.193	trans,trans-alpha-Farnesene	1502	8.56%	
50.408	Unidentified	1506	0.03%	
50.493	Unidentified	1507	0.04%	
50.716	gamma-Cadinene	1511	1.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
50.820	Cubebol	1513	0.01%	
51.026	delta-Cadinene	1516	3.54%	
51.250	cis-Calamenene	1520	0.05%	
51.307	Zonarene	1521	0.19%	
51.520	trans-gamma-Bisabolene	1524	0.01%	
51.872	trans-Cadina-1,4-diene	1530	0.24%	
52.116	alpha-Cadinene	1534	0.28%	
52.348	Unidentified isomer II	1538	0.05%	
52.787	alpha-Elemol	1546	0.05%	
53.535	trans-Nerolidol	1558	0.17%	
54.137	Hex-(3Z)-enyl benzoate	1568	0.03%	
54.504	Unidentified	1575	0.07%	
54.828	10-epi-Junenol	1580	0.13%	
55.030	Globulol	1583	0.11%	
55.295	Unidentified isomer II	1588	0.09%	
55.465	Unidentified	1591	0.07%	
55.505	Viridiflorol	1591	0.04%	
55.653	Guaiol	1594	0.07%	
56.060	Unidentified	1601	0.02%	
56.121	Unidentified	1602	0.01%	
56.265	Unidentified	1604	0.03%	
56.386	Unidentified	1607	0.02%	
56.562	Unidentified	1610	0.02%	
56.740	1,10-di-epi-Cubenol	1613	0.09%	
57.157	Humulane-1,6-dien-3-ol	1620	0.31%	
57.240	Unidentified	1622	0.04%	
57.447	Epicubenol	1625	0.29%	
57.682	gamma-Eudesmol	1630	0.04%	
57.814	Unidentified	1632	0.11%	
58.247	tau-Cadinol	1640	0.55%	
58.352	epi-alpha-Muurolol	1641	1%	
58.507	alpha-Muurolol	1644	0.34%	
58.659	Unidentified	1647	0.05%	
59.002	alpha-Cadinol	1653	2.01%	
59.180	Unidentified	1656	0.03%	
59.355	Unidentified	1659	0.02%	
59.859	Striatol	1668	0.13%	
60.246	Unidentified	1675	0.03%	
62.287	(2E,6E)-Farnesol	1712	1.24%	ALLERGEN IFRA
63.063	Unidentified	1726	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
63.456	(E,E)-Farnesal	1734	0.01%	IFRA
65.097	Benzyl benzoate	1764	5.93%	ALLERGEN IFRA
65.384	Unidentified	1769	0.03%	
68.519	Farnesyl acetate	1829	1.54%	
70.374	Benzyl salicylate	1866	1.68%	ALLERGEN IFRA
74.969	Geranyl benzoate	1958	0.08%	
81.349	Benzyl cinnamate	2093	0.1%	ALLERGEN IFRA

Total Identified Compounds **98.76 %**



TIC
8,856,212

