



# Essential Oil University

## GC/MS Report

Item	Lot
Ylang Ylang EO (Grade I), China <i>Cananga odorata var. geniuna</i>	4J
Date	Analyst
1/22/2026	Dr. Robert S. Pappas

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**The analysis of this batch sample, Ylang Ylang EO (Grade I), China, meets the expected chemical profile for authentic essential oil of *Cananga odorata var. geniuna*. 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 Ylang EO (Grade I), China  
**Botanical Name:** Cananga odorata var. geniuna  
**Lot Number:** 4J  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** China  
**Analysis Date:** 1/22/2026  
**Manufacture Date:** January 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-15.56
Refractive Index @20°C	USP[831]	1.50279
Specific Gravity @20°C	USP[841]	0.94855



Ret. Time	Component	Ret. Idx.	Conc. %	
10.933	Amyl acetate	910	0.27%	
11.315	Prenyl acetate	917	0.97%	
11.647	alpha-Thujene	924	0.01%	
12.045	alpha-Pinene	931	0.08%	ALLERGEN
13.598	Benzaldehyde	960	0.01%	ALLERGEN IFRA
14.181	Sabinene	970	0.02%	
14.476	beta-Pinene	976	0.01%	ALLERGEN
15.102	Myrcene	987	0.15%	PROP. 65
16.026	Hex-(3Z)-enyl acetate	1004	0.06%	
16.160	alpha-Phellandrene	1006	0.01%	
16.462	Hexyl acetate	1010	0.12%	
16.801	alpha-Terpinene	1016	0.06%	ALLERGEN
17.022	para-Methyl anisole	1019	5.34%	
17.282	para-Cymene	1023	0.01%	
17.572	Limonene	1027	0.04%	ALLERGEN IFRA
17.670	beta-Phellandrene	1029	0.01%	
17.748	1,8-Cineole	1030	0.06%	
17.830	Unidentified	1031	0.02%	
17.971	cis-beta-Ocimene	1034	0.02%	
18.645	trans-beta-Ocimene	1044	0.02%	
19.424	gamma-Terpinene	1056	0.09%	
20.213	cis-Linalool oxide (furanoid)	1068	0.01%	
21.215	Terpinolene	1084	0.03%	ALLERGEN
21.280	trans-Linalool oxide (furanoid)	1085	0.02%	
21.809	Methyl benzoate	1093	3.38%	
22.213	Linalool	1099	7.7%	ALLERGEN IFRA
26.467	Benzyl acetate	1161	7.36%	
27.689	Terpinen-4-ol	1179	0.3%	
28.688	alpha-Terpineol	1193	0.06%	ALLERGEN
28.905	Estragole	1196	0.04%	PROP. 65 IFRA
30.669	Nerol	1222	0.05%	
31.619	Neral	1236	0.01%	ALLERGEN IFRA
32.429	Geraniol	1248	0.67%	ALLERGEN IFRA
32.676	2-Phenethyl acetate	1252	0.13%	
33.633	Geranial	1266	0.03%	ALLERGEN IFRA
34.877	trans-Anethole	1284	0.21%	ALLERGEN
35.678	Unidentified	1296	0.01%	
37.519	Elemene analogue	1324	0.02%	
37.915	Unidentified	1330	0.02%	
38.049	Unidentified	1332	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
38.095	delta-Elemene	1333	0.01%	
38.886	alpha-Cubebene	1345	0.13%	
39.157	Eugenol	1349	0.43%	ALLERGEN IFRA
39.650	Neryl acetate	1356	0.03%	
40.102	Unidentified	1363	0.01%	
40.333	alpha-Ylangene	1367	0.19%	
40.755	alpha-Copaene	1373	0.96%	
40.959	Geranyl acetate	1376	5.62%	ALLERGEN
41.269	Unidentified	1381	0.01%	
41.544	Cubebene analogue	1385	0.05%	
41.655	beta-Elemene	1387	0.32%	
41.925	Vanillin	1391	0.02%	ALLERGEN
41.948	Cubebene analogue	1392	0.02%	
42.340	Methyleugenol	1397	0.04%	PROP. 65 IFRA
43.617	beta-Caryophyllene	1418	17.32%	ALLERGEN
43.857	Unidentified	1422	0.02%	
44.069	Unidentified	1425	0.01%	
44.196	beta-Copaene	1427	0.37%	
44.427	Unidentified	1431	0.04%	
44.727	Aromadendrene	1436	0.05%	
45.179	trans-Cinnamyl acetate	1443	3.4%	
45.396	cis-Murrola-3,5-diene	1446	0.27%	
45.515	trans-Murrola-3,5-diene	1448	0.29%	
45.663	trans-beta-Farnesene	1451	0.1%	
45.816	alpha-Humulene	1453	5.59%	
45.949	Unidentified	1455	0.03%	
46.062	cis-Cadina-1(6),4-diene	1457	0.08%	
46.202	cis-Muurolo-4(14),5-diene	1459	0.14%	
46.827	trans-Cadina-1(6),4-diene	1469	0.33%	
47.026	gamma-Muurolo-4(14),5-diene	1473	1.58%	
47.290	alpha-Amorphene	1477	0.34%	
47.407	Germacrene D	1479	5.93%	
47.760	Unidentified	1484	0.01%	
47.886	Prenyl benzoate	1486	0.06%	
48.082	trans-Murrola-4(14),5-diene	1489	0.71%	
48.270	Bicyclgermacrene	1492	0.16%	
48.305	Unidentified	1493	0.11%	
48.472	alpha-Muurolo-4(14),5-diene	1496	1.21%	
48.682	cis-trans-alpha-Farnesene	1499	2.39%	
48.865	trans-trans-alpha-Farnesene	1502	4.76%	



Ret. Time	Component	Ret. Idx.	Conc. %	
49.060	beta-Bisabolene	1505	0.07%	
49.156	beta-Curcumene	1507	0.07%	
49.345	gamma-Cadinene	1510	0.85%	
49.669	delta-Cadinene	1516	3.08%	
49.850	trans-Calamenene	1519	0.1%	
49.928	Zonarene	1520	0.24%	
50.005	Unidentified	1521	0.03%	
50.166	trans-gamma-Bisabolene	1524	0.02%	
50.499	trans-Cadina-1,4-diene	1530	0.19%	
50.745	alpha-Cadinene	1534	0.23%	
50.996	alpha-Calacorene	1538	0.05%	
51.419	alpha-Elemol	1545	0.1%	
52.190	trans-Nerolidol	1558	0.26%	
52.781	Hex-(3Z)-enyl benzoate	1568	0.01%	
53.010	Caryophyllene alcohol	1572	0.04%	
53.087	Unidentified	1573	0.04%	
53.393	Caryophyllene oxide	1579	0.23%	
53.616	Globulol	1582	0.11%	
53.870	Unidentified	1587	0.04%	
54.072	Viridiflorol	1590	0.08%	
54.259	Guaiol	1593	0.06%	
54.612	Unidentified	1599	0.02%	
54.850	Rosifoliol	1603	0.03%	
55.003	Humulene epoxide II	1606	0.04%	
55.160	Unidentified	1609	0.01%	
55.334	1,10-di-epi-Cubenol	1612	0.06%	
55.718	Humulane-1,6-dien-3-ol	1619	0.32%	
55.845	Unidentified	1621	0.03%	
56.044	Epicubenol	1625	0.24%	
56.271	gamma-Eudesmol	1629	0.1%	
56.400	Epicubenol analogue	1631	0.08%	
56.671	Unidentified	1636	0.01%	
56.854	epi-alpha-Cadinol	1639	0.46%	
56.959	epi-alpha-Muurolol	1641	0.68%	
57.106	alpha-Muurolol	1644	0.25%	
57.247	Cadinol isomer	1646	0.04%	
57.600	Cadin-4-en-10-ol	1652	1.4%	
57.756	Unidentified	1655	0.03%	
58.431	Unidentified	1667	0.1%	
60.911	(2E,6E)-Farnesol	1712	0.51%	ALLERGEN IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
63.695	Benzyl benzoate	1764	6.1%	ALLERGEN IFRA
67.127	Farnesyl acetate	1830	0.49%	
67.693	Unidentified	1841	0.02%	
68.949	Benzyl salicylate	1865	2.16%	ALLERGEN IFRA
73.525	Geranyl benzoate	1958	0.09%	
79.879	Benzyl cinnamate	2093	0.22%	ALLERGEN IFRA

Total Identified Compounds **99.34 %**



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11,891,784

