



# GC/MS Report

GC3

Item	Lot
<b>Ylang Ylang III</b> <i>Cananga odorata var. geniuna</i> Ylang Ylang III Oil, Madagascar	<b>13538</b>
Date	Analyst
<b>10/16/2025</b>	<b>K. S</b>

## Sample Information

**Sample Name:** Ylang Ylang III

**Botanical Name:** Cananga odorata var. geniuna

**Lot Number:** 13525

**Production Method:** Steam distilled

**Sample Type:** EO - Single

**Country of Origin:** Madagascar

**Analysis Date:** 10/16/2025

**Manufacture Date:** October 2025

## GC/MS

**Inst. ID:** Shimadzu GCMS-QP2010Ultra

**Injection Type:** Split

**Split Ratio:** 24.4

**Column Type:** ZB-5

**Injection Volume:** 0.1  $\mu$ L

**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

-40.16

1.50293

0.92160

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Components

Ret. Time	Component	Ret. Idx.	Conc. %	
3.754	Unidentified	583	0.01%	
12.059	Prenyl acetate	917	0.02%	
12.803	alpha-Pinene	930	0.16%	ALLERGEN
14.419	Benzaldehyde	959	0.01%	ALLERGEN IFRA
15.336	beta-Pinene	975	0.04%	ALLERGEN
15.957	Myrcene	986	0.09%	PROP. 65
16.942	Hex-(3Z)-enyl acetate	1003	0.02%	
17.375	Hexyl acetate	1009	0.01%	
17.901	para-Methylanisole	1017	1.04%	
18.500	Limonene	1026	0.04%	ALLERGEN IFRA
18.708	1,8-Cineole	1029	0.06%	
18.790	Benzyl alcohol	1031	0.01%	ALLERGEN IFRA
18.891	cis-beta-Ocimene	1032	0.02%	
19.596	trans-beta-Ocimene	1043	0.03%	
21.243	para-Cresol	1068	0.05%	IFRA
22.239	Terpinolene	1083	0.01%	ALLERGEN
22.316	trans-Linalool oxide (furanoid)	1084	0.01%	
22.824	Methyl benzoate	1091	0.5%	
23.193	Linalool	1097	3.37%	ALLERGEN IFRA
23.585	Nonanal	1103	0%	
26.231	Veratrole	1141	0.01%	
27.508	Benzyl acetate	1159	0.64%	
28.080	Ethyl benzoate	1167	0.02%	
29.586	Methyl salicylate	1189	0.02%	ALLERGEN
29.832	alpha-Terpineol	1192	0.09%	ALLERGEN
30.033	Estragole	1195	0.06%	PROP. 65 IFRA
31.818	Nerol	1221	0.01%	
32.767	Neral	1235	0.01%	ALLERGEN IFRA
33.571	Geraniol	1247	0.67%	ALLERGEN IFRA
33.851	2-Phenethyl acetate	1251	0.02%	
34.793	Geranial	1265	0.02%	ALLERGEN IFRA
36.062	trans-Anethole	1283	0.03%	ALLERGEN
36.863	1-nitro-2-Phenyl ethane	1295	0.03%	
37.573	4-vinyl-Guaiacol	1305	0.02%	
38.727	Elemene isomer	1323	0.02%	
39.146	Elemene isomer	1329	0.05%	
39.265	delta-Elemene	1331	0.07%	
39.310	Elemene isomer	1332	0.03%	
40.115	alpha-Cubebene	1344	0.21%	
40.351	Eugenol	1348	0.33%	ALLERGEN IFRA

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Ret. Time	Component	Ret. Idx.	Conc. %	
40.632	Unidentified	1352	0.01%	
40.840	Neryl acetate	1355	0.01%	
41.344	Unidentified	1363	0.02%	
41.582	alpha-Ylangene	1366	0.18%	
41.855	Unidentified	1370	0.02%	
42.007	alpha-Copaene	1373	1.25%	
42.130	Geranyl acetate	1375	7.64%	ALLERGEN
42.413	Elemene isomer	1379	0.03%	
42.523	Unidentified	1381	0.05%	
42.800	beta-Cubebene	1385	0.1%	
42.893	beta-Elemene	1386	0.55%	
43.210	Unidentified	1391	0.05%	
43.791	Cyperene	1400	0.02%	
44.269	Ylangene isomer	1407	0.02%	
44.750	beta-Ylangene	1415	0.25%	
44.858	beta-Caryophyllene	1417	15.53%	ALLERGEN
44.955	Unidentified	1418	0.06%	
45.135	Cedrene-V6	1421	0.04%	IFRA
45.330	Unidentified	1424	0.02%	
45.470	beta-Copaene	1427	0.51%	
45.717	beta-Gurjunene (Calarene)	1431	0.07%	
46.007	Aromadendrene	1435	0.04%	
46.380	trans-Cinnamyl acetate	1441	0.39%	
46.450	trans-Isoeugenol	1442	0.2%	ALLERGEN IFRA
46.679	cis-Murrola-3,5-diene	1446	0.3%	
46.797	trans-Murrola-3,5-diene	1448	0.14%	
46.887	trans-beta-Farnesene	1449	0.08%	
47.090	alpha-Humulene	1452	4.31%	
47.239	Unidentified	1455	0.05%	
47.342	cis-Murrola-4(14),5-diene	1457	0.08%	
47.485	cis-Cadina-1(6),4-diene	1459	0.21%	
48.107	trans-Cadina-1(6),4-diene	1469	0.33%	
48.294	gamma-Murolene	1472	2.3%	
48.590	alpha-Amorphene	1476	0.56%	
48.706	Germacrene D	1478	17.64%	
48.780	gamma-Himachalene	1479	0.14%	
49.155	Prenyl benzoate	1485	0.19%	
49.365	trans-Muurolo-4(14),5-diene	1489	1.07%	
49.567	Bicyclgermacrene	1492	0.51%	
49.746	alpha-Muuroloene	1495	1.43%	

# GC/MS Report Components

Ret. Time	Component	Ret. Idx.	Conc. %	
49.951	cis,trans--alpha-Farnesene	1498	2.33%	
50.099	trans,trans-alpha-Farnesene	1501	10.63%	
50.320	beta-Bisabolene	1504	0.03%	
50.409	Unidentified	1506	0.04%	
50.631	gamma-Cadinene	1509	1.25%	
50.937	delta-Cadinene	1515	4.43%	
51.160	cis-Calamenene	1518	0.05%	
51.217	Zonarene	1519	0.22%	
51.432	trans-gamma-Bisabolene	1523	0.01%	
51.783	trans-Cadine-1,4-diene	1529	0.28%	
52.031	alpha-Cadinene	1533	0.33%	
52.264	Unidentified	1537	0.06%	
52.702	Elemol	1544	0.06%	
53.453	trans-Nerolidol	1557	0.1%	
54.055	Hex-(3Z)-enyl benzoate	1567	0.03%	
54.412	Unidentified	1573	0.07%	
54.745	Unidentified	1579	0.13%	
54.939	Globulol	1582	0.12%	
55.204	Unidentified	1586	0.09%	
55.379	Unidentified	1589	0.08%	
55.425	Viridiflorol	1590	0.04%	
55.569	Guaiol	1592	0.07%	
56.175	Rosifoliol	1603	0.02%	
56.479	Unidentified	1608	0.01%	
56.653	1,10-di-epi-Cubenol	1611	0.09%	
57.071	Humulane-1,6-dien-3-ol	1619	0.39%	
57.362	Epicubenol	1624	0.31%	
57.594	gamma-Eudesmol	1628	0.05%	
57.725	Epicubenol isomer	1630	0.11%	
58.167	tau-Cadinol	1638	0.61%	
58.273	epi-alpha-Cadinol	1640	1.14%	
58.420	delta-Cadinol	1643	0.39%	
58.574	Cadinol analogue	1645	0.06%	
58.919	alpha-Cadinol	1651	2.27%	
59.085	Unidentified	1654	0.03%	
59.768	Striatol	1667	0.12%	
60.155	Unidentified	1673	0.03%	
62.202	(2E,6E)-Farnesol	1710	0.93%	ALLERGEN IFRA
62.981	Unidentified	1725	0.02%	
65.000	Benzyl benzoate	1762	5.87%	ALLERGEN IFRA

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Ret. Time	Component	Ret. Idx.	Conc. %	
65.307	Unidentified	1768	0.02%	
68.428	Farnesyl acetate	1827	1.53%	
70.284	Benzyl salicylate	1864	1.21%	ALLERGEN IFRA
74.882	Geranyl benzoate	1956	0.08%	

Total Identified Compounds **99.13 %**

TIC  
10,476,008

