



# Essential Oil University

## GC/MS Report

Item	Lot
<b>Elemi Oil, Philippines</b> <i>Canarium luzonicum</i>	<b>0G</b>
Date	Analyst
<b>12/2/2025</b>	<b>Dr. Robert S. Pappas</b>

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**The analysis of this batch sample, Elemi Oil, Philippines, meets the expected chemical profile for authentic essential oil of *Canarium luzonicum*. 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:** Elemi Oil, Philippines**Botanical Name:** *Canarium luzonicum***Lot Number:** 0G**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Philippines**Analysis Date:** 12/2/2025**Manufacture Date:** November 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

+67.72

1.47695

0.86307



Ret. Time	Component	Ret. Idx.	Conc. %	
6.214	Toluene	762	0.01%	PROP. 65 IFRA
12.403	alpha-Thujene	923	0.08%	
12.825	alpha-Pinene	931	0.28%	ALLERGEN
13.756	Camphene	947	0.01%	
15.046	Sabinene	970	4.69%	
15.360	beta-Pinene	975	0.83%	ALLERGEN
15.978	Myrcene	986	0.54%	PROP. 65
16.630	Unidentified	998	0.01%	
16.927	Pseudolimonene	1003	0.02%	
17.094	alpha-Phellandrene	1005	14.55%	
17.227	delta-3-Carene	1007	0.17%	
17.737	alpha-Terpinene	1015	0.35%	ALLERGEN
18.228	para-Cymene	1022	1.66%	
18.380	Unidentified	1024	0%	
18.612	Limonene	1028	57.35%	ALLERGEN IFRA
18.686	beta-Phellandrene	1029	1.01%	
18.755	1,8-Cineole	1030	0.37%	
18.916	cis-beta-Ocimene	1032	0.13%	
19.614	trans-beta-Ocimene	1043	0.14%	
20.429	gamma-Terpinene	1055	0.22%	
21.234	trans-Sabinene hydrate	1067	0.05%	
22.257	Terpinolene	1083	0.96%	ALLERGEN
22.584	para-Cymenene	1088	0.03%	
23.331	cis-Sabinene hydrate	1099	0.01%	
24.753	trans-p-Mentha-2,8-dienol	1119	0.02%	
24.946	cis-para-Menth-2-en-1-ol	1122	0.02%	
25.162	allo-Ocimene	1125	0.01%	
25.520	cis-Limonene oxide	1130	0.03%	
25.774	Unidentified	1134	0.04%	
26.195	Unidentified	1140	0.02%	
26.535	Camphor	1145	0.02%	ALLERGEN
28.109	Unidentified	1168	0.03%	
28.377	Carvenone	1171	0.05%	
28.694	Unidentified	1176	0.01%	
28.843	Terpinen-4-ol	1178	0.26%	
29.265	para-Cymen-8-ol	1184	0.08%	
29.848	alpha-Terpineol	1193	1.51%	ALLERGEN
30.185	cis-Piperitol	1197	0.02%	
30.395	alpha-Phellandrene epoxide	1200	0.11%	
31.472	trans-Carveol	1216	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
32.383	cis-Carveol	1229	0.03%	
32.945	Unidentified	1238	0.01%	
33.199	Carvone	1241	0.02%	ALLERGEN IFRA
33.435	Unidentified	1245	0.03%	
33.539	Carvotanacetone	1246	0.02%	
33.871	Piperitone	1251	0.03%	
36.284	Unidentified	1286	0.01%	
36.830	Carvacrol	1294	0.1%	
37.659	Unidentified	1307	0.02%	
38.304	Unidentified	1317	0.07%	
40.128	alpha-Cubebene	1344	0.01%	
40.389	Eugenol	1348	0.01%	ALLERGEN IFRA
42.016	alpha-Copaene	1373	0.06%	
42.750	Unidentified	1384	0.01%	
42.902	beta-Elemene	1386	0.05%	
43.092	Unidentified	1389	0.02%	
43.537	Methyleugenol	1396	0.15%	PROP. 65 IFRA
44.839	beta-Caryophyllene	1417	0.12%	ALLERGEN
45.163	Unidentified	1422	0%	
47.094	alpha-Humulene	1453	0.05%	
47.956	Unidentified	1466	0.01%	
48.678	Germacrene D	1478	0.04%	
49.755	alpha-Murolene	1495	0.02%	
50.980	delta-Cadinene	1515	0.04%	
50.988	Elemol analogue	1515	0.03%	
52.600	Elemicin	1543	2.64%	
52.744	alpha-Elemol	1545	9.74%	
55.582	Guaiol	1593	0.11%	
56.527	Unidentified	1609	0%	
57.609	gamma-Eudesmol	1628	0.26%	
58.927	alpha-Eudesmol	1652	0.41%	
59.476	Bulnesol	1661	0.02%	
65.571	Unidentified	1773	0.01%	
66.468	Phellandrene dimer	1790	0.04%	
67.621	Cryptomeridiol	1812	0.02%	
68.212	Unidentified	1823	0.02%	

Total Identified Compounds **99.65 %**



TIC  
18,154,932

