



# Essential Oil University

## GC/MS Report

Item	Lot
Patchouli EO Light <i>Pogostemon cablin</i>	9S
Date	Analyst
6/19/2025	Dr. Robert S. Pappas

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**The analysis of this batch sample, Patchouli EO Light, meets the expected chemical profile for authentic essential oil of *Pogostemon cablin*. 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:** Patchouli EO Light  
**Botanical Name:** Pogostemon cablin  
**Lot Number:** 9S  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** Indonesia  
**Analysis Date:** 6/19/2025  
**Manufacture Date:** June 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

-54.60  
1.50738  
0.95790



Ret. Time	Component	Ret. Idx.	Conc. %	
8.461	2-Heptanone	849	0%	
10.136	2,5-Diethyl tetrahydrofuran	894	0%	
11.993	alpha-Pinene	930	0.26%	
12.874	Camphene	946	0.01%	
14.125	Sabinene	969	0.01%	
14.418	beta-Pinene	975	0.71%	
14.807	3-Octanone	982	0.01%	
15.091	2-Pentyl furan	987	0.01%	
15.480	3-Octanol	994	0.02%	
17.506	Limonene	1026	0.07%	IFRA
21.147	Terpinolene	1082	0.01%	
22.096	Linalool	1097	0.02%	IFRA
28.624	alpha-Terpineol	1192	0.01%	
37.451	Unidentified	1323	0.02%	
38.030	delta-Elemene	1332	0.23%	
38.536	Unidentified	1339	0.01%	
40.663	alpha-Copaene	1372	0.02%	
40.863	Unidentified	1375	0.01%	
41.086	Elemene isomer	1378	0.04%	
41.240	beta-Patchoulene	1381	4.93%	
41.572	beta-Elemene	1386	1.53%	
41.685	Patchoulene isomer	1388	0.03%	
42.518	cis-beta-Caryophyllene	1400	0.01%	
42.898	Unidentified	1406	0.02%	
43.170	Cycloseychellene	1411	0.78%	
43.472	beta-Caryophyllene	1416	3.8%	
43.646	Unidentified	1418	0.01%	
44.110	gamma-Elemene	1426	0.01%	
44.534	alpha-Guaiene	1433	15.54%	
44.903	Unidentified	1438	0.03%	
45.027	Unidentified	1440	0.05%	
45.322	Seychellene	1445	7.13%	
45.466	Selina-5,11-diene	1448	0.06%	
45.597	Unidentified	1450	0.02%	
45.722	alpha-Humulene	1452	0.55%	
45.932	Unidentified	1455	0.16%	
46.083	alpha-Patchoulene	1457	4.97%	
46.250	9-epi-Caryophyllene isomer	1460	2.05%	
46.478	Alloaromodendrene	1464	1.32%	
46.605	Drima-7,9(11)-diene	1466	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %
46.819	Selina-4,11-diene	1469	0.05%
46.971	beta-Chamigrene	1472	0.4%
47.184	gamma-Gurjunene	1475	0.11%
47.290	Germacrene D	1477	0.05%
47.580	Unidentified	1481	0.01%
47.673	delta-Selinene	1483	0.14%
47.789	beta-Selinene	1485	0.33%
47.987	Valencene	1488	0.03%
48.230	Aciphyllene	1492	2.41%
48.409	Gurjunene analogue	1495	0.73%
48.645	alpha-Bulnesene	1498	14.7%
48.735	Unidentified	1500	0.04%
48.944	Unidentified	1503	0.02%
49.096	Nootkatene	1506	0.11%
49.405	Unidentified	1511	0.01%
49.450	Unidentified	1512	0.01%
49.612	(-)-alpha-Panasinsen	1515	0.2%
50.163	beta-Vetivenene	1524	0.04%
50.276	Nootkatene isomer	1526	0.13%
50.623	Unidentified	1532	0.01%
51.350	Elemol	1544	0.04%
51.941	Germacrene B	1554	0.01%
52.040	Unidentified	1556	0.01%
52.121	Unidentified	1557	0.01%
52.329	Unidentified	1561	0.01%
52.512	Unidentified	1564	0.03%
52.611	D Norpatchoulenol	1565	0.37%
52.750	Unidentified	1568	0.15%
52.980	Unidentified	1572	0.01%
53.150	Unidentified	1575	0.01%
53.307	Caryophyllene oxide	1577	0.21%
53.501	Spathulenol	1580	0.23%
53.694	Unidentified	1584	0.02%
53.740	Unidentified	1585	0.01%
53.882	Unidentified	1587	0.01%
54.202	Unidentified	1592	0.04%
54.597	Unidentified	1599	0.05%
54.815	Unidentified	1603	0.01%
54.929	Humulene epoxide II	1605	0.03%
55.252	Unidentified	1611	0.09%



Ret. Time	Component	Ret. Idx.	Conc. %
55.332	Unidentified	1612	0.1%
55.448	Unidentified	1614	0.03%
55.684	Unidentified	1618	0.13%
55.921	Unidentified	1622	0.37%
56.215	Unidentified	1628	0.04%
56.552	Pogostol isomer	1634	0.15%
56.802	Unidentified	1638	0.02%
56.945	Unidentified	1641	0.06%
57.105	Unidentified	1644	0.03%
57.210	Unidentified	1645	0.02%
57.302	Unidentified	1647	0.04%
57.680	Pogostol	1654	1.17%
58.027	Unidentified	1660	0.07%
58.169	Unidentified	1662	0.03%
58.492	Patchouli alcohol	1668	31.55%
58.732	Unidentified	1672	0.06%
58.941	Unidentified	1676	0.02%
59.178	Unidentified	1680	0.01%
60.122	Unidentified	1697	0.09%
60.424	Unidentified	1703	0.01%
60.749	Pogostone	1709	0.27%
61.043	Unidentified	1714	0.09%
61.330	Unidentified	1720	0.02%
61.747	Unidentified	1727	0.03%
61.950	Longifolol	1731	0.07%
62.594	Unidentified	1743	0.01%
62.782	Unidentified	1747	0.02%
63.020	Unidentified	1751	0.02%
63.560	Unidentified	1761	0.02%
63.721	Unidentified	1764	0.01%
64.193	Unidentified	1773	0.03%
64.604	Unidentified	1781	0.01%
65.645	Unidentified	1800	0.01%
69.804	Unidentified	1882	0.01%

Total Identified Compounds **97.69 %**

