



# Essential Oil University

## GC/MS Report

Item	Lot
NOP Patchouli EO Light <i>Pogostemon cablin</i>	2G
Date	Analyst
1/6/2025	Dr. Robert S. Pappas

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**The analysis of this batch sample, NOP 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:** NOP Patchouli EO Light  
**Botanical Name:** Pogostemon cablin  
**Lot Number:** 2G  
**Production Method:** Steam distilled

**Sample Type:** EO - Certified Organics  
**Country of Origin:** India  
**Analysis Date:** 1/6/2025  
**Manufacture Date:** September 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**

-49.96  
1.50849  
0.96146



Ret. Time	Component	Ret. Idx.	Conc. %	
12.561	alpha-Pinene	923	0.08%	ALLERGEN
15.032	beta-Pinene	967	0.18%	ALLERGEN
18.147	Limonene	1018	0.02%	ALLERGEN IFRA
33.064	Chavicol	1236	0.01%	
38.253	Unidentified	1312	0.01%	
38.831	delta-Elemene	1321	0.12%	
39.822	Eugenol	1336	0.04%	ALLERGEN IFRA
41.885	Elemene isomer	1367	0.04%	
42.050	beta-Patchoulene	1370	2.38%	
42.366	beta-Elemene	1374	1.12%	
42.510	Patchoulene isomer	1377	0.02%	
43.335	cis-beta-Caryophyllene	1389	0.01%	ALLERGEN
43.994	Cycloseychellene	1399	0.58%	
44.279	beta-Caryophyllene	1404	3.18%	ALLERGEN
44.908	gamma-Elemene	1414	0.02%	
45.311	alpha-Guaiene	1420	13.91%	
45.704	Unidentified	1426	0.03%	
45.828	Guaiene isomer	1428	0.05%	
46.120	Seychellene	1433	6.44%	
46.271	Selina-5,11-diene	1435	0.07%	
46.384	Unidentified	1437	0.02%	
46.524	alpha-Humulene	1439	0.57%	
46.742	Unidentified	1443	0.15%	
46.887	alpha-Patchoulene	1445	4.71%	
47.066	9-epi-Caryophyllene isomer	1448	1.84%	
47.294	9-epi-Caryophyllene isomer	1452	1.3%	
47.426	Drima-7,9(11)-diene	1454	0.02%	
47.634	Selina-4,11-diene	1457	0.04%	
47.784	beta-Chamigrene	1459	0.43%	
47.904	Unidentified	1461	0.02%	
48.005	gamma-Gurjunene	1463	0.1%	
48.097	Germacrene D	1464	0.07%	
48.395	Unidentified	1469	0.01%	
48.489	delta-Selinene	1471	0.16%	
48.602	beta-Selinene	1472	0.35%	
48.809	Valencene	1476	0.03%	
49.039	Aciphyllene	1479	2.97%	
49.222	gamma-Gurjunene	1482	0.83%	
49.435	alpha-Bulnesene	1486	18.48%	
49.744	Unidentified	1491	0.03%	

Ret. Time	Component	Ret. Idx.	Conc. %
49.901	Nootkatene	1493	0.13%
50.430	(-)-alpha-Panasinsen	1502	0.24%
50.964	Vetivenene analogue	1510	0.05%
51.080	Nootkatene isomer	1512	0.17%
51.434	Unidentified	1518	0.01%
52.123	Elemol	1530	0.02%
52.768	Germacrene B	1541	0.02%
52.857	Unidentified	1542	0.04%
53.136	Unidentified	1547	0.01%
53.345	Unidentified	1550	0.05%
53.410	D Norpatchoulenol	1552	0.53%
53.554	Unidentified	1554	0.16%
53.660	Unidentified	1556	0.01%
54.112	Caryophyllene oxide	1563	0.25%
54.292	Spathulenol	1566	0.36%
54.493	Unidentified	1570	0.03%
54.680	Unidentified	1573	0.01%
54.976	Unidentified	1578	0.01%
55.329	Unidentified	1584	0.03%
55.635	Unidentified	1589	0.03%
55.719	Humulene epoxide II	1590	0.04%
56.044	Unidentified	1596	0.15%
56.117	Unidentified	1597	0.14%
56.238	Unidentified	1599	0.05%
56.365	Unidentified	1601	0.02%
56.489	Unidentified	1603	0.18%
56.706	Unidentified	1607	0.55%
56.760	Unidentified	1608	0.07%
56.805	Unidentified	1609	0.05%
57.002	Unidentified	1612	0.06%
57.341	Pogostol isomer	1618	0.29%
57.582	Unidentified	1623	0.04%
57.735	Intermedeol	1625	0.14%
57.888	Unidentified	1628	0.08%
58.068	Unidentified	1631	0.07%
58.440	Pogostol	1638	2.35%
58.645	Unidentified	1641	0.05%
58.829	Unidentified	1645	0.18%
58.926	Unidentified	1646	0.11%
59.240	Patchouli alcohol	1652	31.17%



Ret. Time	Component	Ret. Idx.	Conc. %
59.343	Unidentified	1654	0.23%
59.523	Unidentified	1657	0.1%
59.615	Unidentified	1659	0.02%
59.738	Unidentified	1661	0.04%
59.958	Unidentified	1665	0.04%
60.790	Unidentified	1679	0.01%
60.914	Unidentified	1681	0.1%
61.075	Unidentified	1684	0.01%
61.212	Unidentified	1687	0.02%
61.484	Pogostone	1692	0.55%
61.687	Unidentified	1695	0.03%
61.807	Unidentified	1697	0.12%
61.990	Unidentified	1700	0.03%
62.107	Unidentified	1703	0.02%
62.529	Unidentified	1710	0.04%
62.739	Longifolol	1714	0.16%
63.551	Unidentified	1729	0.01%
63.810	Unidentified	1734	0.01%
64.516	Unidentified	1747	0.04%
64.982	Unidentified	1756	0.05%

Total Identified Compounds **96.64 %**



TIC  
17,340,452

