



Essential Oil University

GC/MS Report

Item	Lot
Patchouli EO Dark <i>Pogostemon cablin</i>	8F
Date	Analyst
1/22/2026	Dr. Robert S. Pappas

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The analysis of this batch sample, Patchouli EO Dark, 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 Dark
Botanical Name: Pogostemon cablin
Lot Number: 8F
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Indonesia
Analysis Date: 1/22/2026
Manufacture Date: December 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]	-49.84
Refractive Index @20°C	USP[831]	1.50846
Specific Gravity @20°C	USP[841]	0.95941



Ret. Time	Component	Ret. Idx.	Conc. %	
12.787	alpha-Pinene	930	0.06%	ALLERGEN
15.316	beta-Pinene	975	0.14%	ALLERGEN
18.477	Limonene	1026	0.02%	ALLERGEN IFRA
39.301	delta-Elemene	1332	0.12%	
41.971	alpha-Copaene	1372	0.01%	
42.378	Elemene isomer	1378	0.04%	
42.565	beta-Patchoulene	1381	2.56%	
42.855	beta-Elemene	1386	1.17%	
43.030	Patchoulene isomer	1388	0.02%	
43.839	cis-beta-Caryophyllene	1401	0.01%	ALLERGEN
44.230	Unidentified	1407	0%	
44.530	Cycloseychellene	1412	0.58%	
44.800	beta-Caryophyllene	1416	3.02%	ALLERGEN
45.407	gamma-Elemene	1426	0.01%	
45.820	alpha-Guaiene	1432	13.42%	
46.209	Unidentified	1438	0.03%	
46.360	Guaiene isomer	1441	0.04%	
46.683	Seychellene	1446	6.4%	
46.785	Selina-5,11-diene	1448	0.06%	
47.055	alpha-Humulene	1452	0.54%	
47.302	Unidentified	1456	0.12%	
47.442	alpha-Patchoulene	1458	4.58%	
47.617	9-epi-Caryophyllene isomer	1461	1.86%	
47.848	Alloaromodendrene	1465	1.34%	
48.142	Selina-4,11-diene	1469	0.04%	
48.299	beta-Chamigrene	1472	0.45%	
48.530	gamma-Gurjunene	1475	0.11%	
48.629	Germacrene D	1477	0.06%	
49.004	delta-Selinene	1483	0.16%	
49.132	beta-Selinene	1485	0.35%	
49.337	Valencene	1488	0.02%	
49.557	Aciphyllene	1492	2.96%	
49.766	alpha-Selinene	1495	0.8%	
49.967	alpha-Bulnesene	1498	17.89%	
50.268	Unidentified	1503	0.03%	
50.419	Nootkatene isomer	1506	0.11%	
50.596	Unidentified	1509	0.01%	
50.974	(-)-alpha-Panasinsen	1515	0.24%	
51.479	Unidentified	1524	0.03%	
51.610	Nootkatene isomer	1526	0.13%	



Ret. Time	Component	Ret. Idx.	Conc. %
51.979	Unidentified	1532	0.02%
52.668	Elemol	1544	0.04%
53.378	Germacrene B	1556	0.06%
53.550	Unidentified	1559	0.01%
53.674	Unidentified	1561	0.01%
53.865	Unidentified	1564	0.05%
54.039	D Norpatchoulenol	1567	0.75%
54.505	Unidentified	1575	0.02%
54.684	Caryophyllene oxide	1578	0.28%
54.845	Spathulenol	1580	0.31%
55.045	Unidentified	1584	0.03%
55.229	Unidentified	1587	0.01%
55.538	Unidentified	1592	0.06%
55.804	Unidentified	1596	0.02%
55.944	Unidentified	1599	0.08%
56.180	Unidentified	1603	0.04%
56.304	Humulene epoxide II	1605	0.04%
56.630	Unidentified	1611	0.14%
56.673	Unidentified	1612	0.14%
56.845	Unidentified	1615	0.05%
57.119	Unidentified	1620	0.27%
57.281	Unidentified	1622	0.76%
57.583	Unidentified	1628	0.07%
57.921	Pogostol isomer	1634	0.33%
58.191	Unidentified	1639	0.07%
58.337	Unidentified	1641	0.15%
58.471	Unidentified	1644	0.09%
58.653	Unidentified	1647	0.09%
59.045	Pogostol	1654	2.63%
59.455	Unidentified	1661	0.23%
59.554	Unidentified	1663	0.1%
59.896	Patchouli alcohol	1669	30.05%
59.981	Valerianol isomer	1670	1.89%
60.101	Unidentified	1672	0.04%
60.312	Unidentified	1676	0.02%
60.600	Unidentified	1681	0.02%
61.017	Unidentified	1689	0.03%
61.492	Unidentified	1697	0.15%
61.812	Unidentified	1703	0.03%
62.073	Pogostone	1708	0.33%



Ret. Time	Component	Ret. Idx.	Conc. %
62.381	Altantone isomer	1713	0.11%
62.527	Unidentified	1716	0.08%
62.707	Unidentified	1720	0.04%
62.981	Unidentified	1725	0.01%
63.131	Unidentified	1727	0.06%
63.352	Longifolol isomer	1732	0.19%
63.545	Unidentified	1735	0.03%
63.868	Khusimol	1741	0.06%
64.005	Unidentified	1744	0.01%
64.132	Altantone isomer	1746	0.02%
64.418	Unidentified	1751	0.03%
65.109	beta-Costol	1764	0.06%
65.630	Unidentified	1774	0.08%
65.953	trans-Isovalencenol	1780	0.06%
67.034	Unidentified	1800	0.01%
67.403	Unidentified	1807	0.02%
67.540	Unidentified	1810	0.01%
68.656	Vetivone isomer	1832	0.01%
68.848	Phytone	1836	0.01%
69.075	Unidentified	1840	0.01%
69.418	Unidentified	1847	0.01%
71.215	Unidentified	1882	0.01%

Total Identified Compounds **96.55 %**



TIC
18,904,330

