



Essential Oil University

GC/MS Report

Item	Lot
Patchouli EO Dark <i>Pogostemon cablin</i>	0AA
Date	Analyst
7/11/2025	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:** 0AA**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Indonesia**Analysis Date:** 7/11/2025**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 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

-48.68

1.50871

0.96258



Ret. Time	Component	Ret. Idx.	Conc. %	
12.026	alpha-Pinene	931	0.08%	
14.455	beta-Pinene	975	0.18%	
17.549	Limonene	1027	0.02%	IFRA
37.500	Unidentified	1324	0.01%	
38.077	delta-Elemene	1332	0.13%	
41.134	Elemene isomer	1379	0.04%	
41.278	beta-Patchoulene	1381	3%	
41.618	beta-Elemene	1386	1.1%	
41.733	Patchoulene isomer	1388	0.02%	
42.430	Unidentified	1399	0.01%	
42.559	cis-beta-Caryophyllene	1401	0.02%	
42.940	Unidentified	1407	0.01%	
43.217	Cycloseychellene	1411	0.65%	
43.518	beta-Caryophyllene	1416	3.11%	
43.706	Unidentified	1419	0.01%	
44.157	gamma-Elemene	1427	0.01%	
44.572	alpha-Guaiene	1433	14.01%	
44.950	Unidentified	1439	0.03%	
45.073	Selina-5,11-diene	1441	0.04%	
45.370	Seychellene	1446	6.84%	
45.510	Unidentified	1448	0.07%	
45.641	Unidentified	1450	0.02%	
45.768	alpha-Humulene	1452	0.54%	
45.980	Aristol-1(10),8-diene	1456	0.17%	
46.129	alpha-Patchoulene	1458	4.7%	
46.299	Unidentified	1461	1.82%	
46.524	Unidentified	1464	1.3%	
46.658	alpha-Muurolene	1467	0.03%	
46.864	gamma-Eudesmol	1470	0.06%	
47.018	beta-Chamigrene	1472	0.43%	
47.236	gamma-Gurjunene	1476	0.1%	
47.335	Germacrene D	1477	0.06%	
47.550	Unidentified	1481	0%	
47.640	Unidentified	1482	0.02%	
47.720	delta-Selinene	1484	0.16%	
47.839	beta-Selinene	1486	0.41%	
48.043	Valencene	1489	0.03%	
48.277	Aciphyllene	1493	2.83%	
48.457	Unidentified	1495	0.81%	
48.702	alpha-Bulnesene	1499	17.57%	



Ret. Time	Component	Ret. Idx.	Conc. %
48.983	Unidentified	1504	0.03%
49.151	Nootkatene	1507	0.16%
49.486	Unidentified	1513	0.03%
49.662	(-)-alpha-Panasinsen	1516	0.26%
50.209	Unidentified	1525	0.06%
50.327	Unidentified	1527	0.17%
50.685	Unidentified	1533	0.01%
51.391	Elemol	1545	0.02%
51.994	Germacrene B	1555	0.02%
52.077	Unidentified	1556	0.02%
52.200	Unidentified	1558	0.01%
52.376	Unidentified	1561	0.01%
52.555	Unidentified	1564	0.07%
52.665	D Norpatchoulenol	1566	0.54%
52.801	Palustrol	1569	0.32%
53.205	Unidentified	1575	0.01%
53.356	Caryophyllene oxide	1578	0.39%
53.559	Spathulenol	1581	0.5%
53.726	Unidentified	1584	0.05%
53.931	Unidentified	1588	0.01%
54.286	Unidentified	1594	0.03%
54.450	Unidentified	1597	0%
54.566	Unidentified	1598	0.02%
54.865	Unidentified	1604	0.01%
54.975	Humulene epoxide II	1606	0.06%
55.300	Unidentified	1611	0.15%
55.384	Spathulenol analogue	1613	0.19%
55.493	Unidentified	1615	0.05%
55.737	Unidentified	1619	0.22%
55.975	Unidentified	1623	0.63%
56.070	Unidentified	1625	0.08%
56.268	Unidentified	1629	0.08%
56.606	Pogostol isomer	1635	0.3%
56.859	Unidentified	1639	0.04%
56.997	Juniper camphor	1642	0.14%
57.156	Unidentified	1644	0.08%
57.351	Unidentified	1648	0.07%
57.733	Pogostol	1655	2.28%
58.045	Unidentified	1660	0.08%
58.078	Unidentified	1661	0.16%



Ret. Time	Component	Ret. Idx.	Conc. %
58.220	Unidentified	1663	0.09%
58.535	Patchouli alcohol	1669	30.02%
58.613	Unidentified	1670	0.15%
58.784	Unidentified	1673	0.15%
58.996	Unidentified	1677	0.05%
59.218	Unidentified	1681	0.03%
59.610	Unidentified	1688	0.02%
59.698	Unidentified	1690	0.02%
59.810	Unidentified	1692	0%
60.071	Unidentified	1696	0.01%
60.173	Unidentified	1698	0.22%
60.317	Unidentified	1701	0.01%
60.481	Unidentified	1704	0.03%
60.660	Unidentified	1707	0.01%
60.798	Unidentified	1710	0.12%
60.954	Unidentified	1713	0.03%
61.095	Unidentified	1715	0.2%
61.180	Unidentified	1717	0.06%
61.368	Unidentified	1720	0.03%
61.801	Unidentified	1728	0.09%
62.001	Longifolol	1732	0.19%
62.220	Unidentified	1736	0.01%
62.661	Unidentified	1745	0.01%
62.838	Unidentified	1748	0.05%
63.067	Unidentified	1752	0.02%
63.520	Unidentified	1761	0.02%
63.773	Unidentified	1765	0.08%
64.250	Unidentified	1774	0.09%
64.364	Unidentified	1776	0.01%
64.698	Cyperadione	1783	0.07%
65.148	Unidentified	1791	0.03%
65.411	Unidentified	1796	0.02%
65.689	Unidentified	1801	0.05%
66.059	Unidentified	1809	0.03%
66.160	Unidentified	1811	0.01%
67.339	Unidentified	1834	0.01%
67.561	Phytone	1838	0.01%
67.712	Unidentified	1841	0.01%
68.074	Unidentified	1848	0.04%
68.694	Unidentified	1860	0.01%



Ret. Time	Component	Ret. Idx.	Conc. %	
68.902	Unidentified	1864	0.02%	
69.440	Unidentified	1875	0.01%	
69.850	Unidentified	1883	0.08%	
70.107	Unidentified	1888	0.01%	
70.512	Unidentified	1896	0.01%	

Total Identified Compounds **91.81 %**

