



Essential Oil University

GC/MS Report

Item	Lot
Patchouli EO Dark <i>Pogostemon cablin</i>	5C
Date	Analyst
1/21/2025	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:** 5C**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Indonesia**Analysis Date:** 1/21/2025**Manufacture Date:** May 2021

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

-49.00

1.51105

0.97871



Ret. Time	Component	Ret. Idx.	Conc. %	
14.527	alpha-Pinene	963	0.06%	
17.171	beta-Pinene	1008	0.14%	
20.422	Limonene	1057	0.02%	IFRA
41.170	delta-Elemene	1362	0.09%	
43.853	alpha-Copaene	1403	0.02%	
44.221	Elemene isomer	1409	0.03%	
44.451	beta-Patchoulene	1412	2.02%	
44.699	beta-Elemene	1416	1.01%	
44.920	Unidentified	1420	0.03%	
46.423	Cycloseychellene	1444	0.62%	
46.662	trans-beta-Caryophyllene	1448	2.16%	
47.649	alpha-Guaiene	1463	10.71%	
48.038	epi-alpha-Patchoulene	1470	0.02%	
48.213	Selina-5,11-diene	1472	0.02%	
48.574	Seychellene	1478	7.07%	
48.907	alpha-Humulene	1483	0.45%	
49.066	Unidentified	1486	0.03%	
49.179	Aristola-1(10),8-diene	1488	0.11%	
49.317	alpha-Patchoulene	1490	4.51%	
49.484	Unidentified	1493	1.38%	
49.723	Unidentified	1496	1.21%	
49.957	Selina-4,11-diene	1500	0.03%	
50.109	beta-Chamigrene	1503	0.35%	
50.353	gamma-Gurjunene	1507	0.12%	
50.799	delta-Selinene	1514	0.09%	
50.947	beta-Selinene	1517	0.32%	
51.145	Valencene	1520	0.02%	
51.353	Aciphyllene	1524	2.11%	
51.558	Unidentified	1527	0.99%	
51.772	alpha-Bulnesene	1531	14.72%	
52.038	Unidentified	1535	0.05%	
52.201	Nootkatene	1538	0.1%	
52.674	Unidentified	1546	0.03%	
52.789	(-)-alpha-Panasinsen	1548	0.22%	
53.246	Unidentified	1555	0.09%	
53.398	Unidentified	1558	0.11%	
53.748	Unidentified	1564	0.02%	
54.168	Unidentified	1571	0.01%	
54.430	Elemol	1575	0.03%	
54.681	Unidentified	1580	0.07%	



Ret. Time	Component	Ret. Idx.	Conc. %	
55.133	Unidentified	1587	0.02%	
55.634	Unidentified	1596	0.2%	
55.866	D Norpatchoulenol	1599	1.78%	
56.280	Palustrol	1607	0.12%	
56.481	Caryophyllene oxide	1610	1.16%	
56.608	Unidentified	1613	0.68%	
56.797	Unidentified	1616	0.12%	
56.990	Unidentified	1619	0.02%	
57.285	Unidentified	1625	0.22%	
57.475	Unidentified	1628	0.01%	
57.696	Unidentified	1632	0.34%	
57.922	Unidentified	1636	0.06%	
58.083	Humulene epoxide II	1639	0.15%	
58.434	Unidentified	1645	0.34%	
58.777	Unidentified	1651	0.33%	
58.924	Unidentified	1654	0.1%	
59.033	Unidentified	1655	0.65%	
59.333	Unidentified	1661	0.05%	
59.670	Pogostol analog	1667	0.35%	
59.958	Unidentified	1672	0.15%	
60.100	Unidentified	1674	0.13%	
60.229	Unidentified	1677	0.04%	
60.414	Unidentified	1680	0.05%	
60.802	Pogostol	1687	2.49%	
61.221	Unidentified	1694	0.21%	
61.319	Unidentified	1696	0.09%	
61.460	Unidentified	1698	0.25%	
61.708	Patchouli alcohol	1703	33.45%	
61.797	Unidentified	1705	0.45%	
62.037	Unidentified	1709	0.2%	
62.386	Unidentified	1716	0.07%	
62.727	Unidentified	1722	0.11%	
63.040	Heptadecane	1728	0.04%	
63.202	Unidentified	1731	0.56%	
63.345	Unidentified	1733	0.04%	
63.523	Unidentified	1737	0.08%	
63.791	Pogostone	1742	0.72%	
64.061	Unidentified	1747	0.47%	
64.282	Unidentified	1751	0.13%	
64.435	Unidentified	1754	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
64.848	Unidentified	1761	0.28%	
65.081	Longifolol	1766	0.22%	
65.335	Unidentified	1770	0.02%	
65.466	Unidentified	1773	0.04%	
65.785	Unidentified	1779	0.1%	
66.116	Unidentified	1785	0.04%	
66.794	Unidentified	1798	0.15%	
66.936	Unidentified	1800	0.04%	
67.374	Unidentified	1809	0.18%	
67.689	Cyperadione	1815	0.13%	
68.128	Unidentified	1824	0.08%	
68.217	Unidentified	1825	0.06%	
68.439	Unidentified	1830	0.08%	
68.672	Unidentified	1834	0.06%	
68.725	Unidentified	1835	0.08%	
69.097	Unidentified	1843	0.09%	
69.294	Unidentified	1846	0.05%	
70.396	Unidentified	1868	0.03%	
71.109	Unidentified	1882	0.17%	
71.983	Unidentified	1899	0.07%	
72.573	Unidentified	1911	0.02%	
72.898	Unidentified	1918	0.26%	
73.088	Unidentified	1922	0.02%	
73.621	Unidentified	1933	0.04%	

Total Identified Compounds **87.78 %**

