

## Sample Information

**Sample Name:** Patchouli EO Dark

**Botanical Name:** Pogostemon cablin

**Lot Number:** INX30-XK

**Production Method:** Steam distilled

**Sample Type:** EO - Single

**Country of Origin:** Indonesia

**Analysis Date:** 9/20/23

**Date of Distillation:** September 2023

## 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 %**

