



GC/MS Report

GC4

Item	Lot 13559
98401-9	
<i>Pogostemon cablin</i>	
Patchouli EO Dark	
Date	Analyst
6/30/2025	N. K

Sample Information

Sample Name: Patchouli, Dark
Botanical Name: Pogostemon cablin
Lot Number: 13559
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Indonesia
Analysis Date: 6/30/2025
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	Aristola-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	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 %**

