



Essential Oil University

GC/MS Report

Item	Lot
NOP Patchouli EO Light <i>Pogostemon cablin</i>	8AF
Date	Analyst
12/16/2024	Dr. Robert S. Pappas

© Copyright 2024 by Essential Oil University. All rights reserved. Any publishing, copying, use, dissemination, or distribution of this report, including online, without the express written permission of Essential Oil University is strictly prohibited.

The analysis of this batch sample, NOP Patchouli EO Light, 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:** NOP Patchouli EO Light**Botanical Name:** Pogostemon cablin**Lot Number:** 8AF**Production Method:** Steam distilled**Sample Type:** EO - Certified Organics**Country of Origin:** India**Analysis Date:** 12/16/2024**Manufacture Date:** October 2024

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

-48.88

1.50905

0.96574



Ret. Time	Component	Ret. Idx.	Conc. %	
12.206	alpha-Pinene	930	0.07%	
14.658	beta-Pinene	975	0.18%	
17.773	Limonene	1026	0.03%	IFRA
37.823	Unidentified	1323	0.01%	
38.405	delta-Elemene	1332	0.11%	
41.043	alpha-Copaene	1372	0.02%	
41.464	Elemene isomer	1379	0.04%	
41.610	beta-Patchoulene	1381	2.5%	
41.951	beta-Elemene	1386	1.18%	
42.080	Patchoulene isomer	1388	0.02%	
43.554	Cycloseychellene	1411	0.63%	
43.855	beta-Caryophyllene	1416	3.05%	
44.490	Unidentified	1426	0.01%	
44.904	alpha-Guaiene	1433	12.19%	
45.285	Unidentified	1439	0.03%	
45.407	alpha-Guaiene isomer	1441	0.04%	
45.702	Seychellene	1446	6.75%	
45.851	Selina-5,11-diene	1448	0.07%	
45.975	Unidentified	1450	0.01%	
46.109	alpha-Humulene	1452	0.56%	
46.320	Unidentified	1456	0.16%	
46.469	alpha-Patchoulene	1458	4.91%	
46.639	Patchoulene isomer	1461	1.97%	
46.865	Patchoulene isomer	1464	1.42%	
46.999	Unidentified	1466	0.03%	
47.202	Selina-4,11-diene	1470	0.05%	
47.361	Unidentified	1472	0.46%	
47.579	gamma-Gurjunene	1476	0.11%	
47.680	Germacrene D	1477	0.05%	
48.063	Cadinene isomer	1484	0.16%	
48.181	beta-Selinene	1485	0.38%	
48.388	Unidentified	1489	0.03%	
48.622	Aciphyllene	1493	3.02%	
48.803	beta-Selinene	1495	1.05%	
49.041	alpha-Bulnesene	1499	16.65%	
49.330	Unidentified	1504	0.03%	
49.489	Nootkatene	1507	0.14%	
50.012	(-)-alpha-Panasinsen	1516	0.27%	
50.553	Unidentified	1525	0.07%	
50.670	Nootkatene analogue	1527	0.19%	



Ret. Time	Component	Ret. Idx.	Conc. %
51.025	Unidentified	1533	0.02%
51.726	Elemol	1544	0.05%
52.344	Unidentified	1555	0.02%
52.450	Unidentified	1557	0.06%
52.719	Unidentified	1561	0.01%
52.915	Unidentified	1564	0.07%
52.998	Norpatchoulanol	1566	0.76%
53.150	Palustrol	1568	0.39%
53.370	Unidentified	1572	0.02%
53.710	Caryophyllene oxide	1578	0.63%
53.899	Spathulenol	1581	0.52%
54.081	Spathulenol isomer	1584	0.07%
54.278	Unidentified	1587	0.04%
54.590	Unidentified	1593	0.12%
55.001	Unidentified	1600	0.19%
55.323	Humulene epoxide II	1605	0.12%
55.653	Unidentified	1611	0.22%
55.734	Unidentified	1613	0.22%
55.840	Unidentified	1615	0.07%
56.082	Unidentified	1619	0.37%
56.326	Unidentified	1623	0.99%
56.612	Unidentified	1628	0.1%
56.955	Pogostol isomer	1634	0.41%
57.210	Unidentified	1639	0.07%
57.346	Unidentified	1641	0.18%
57.504	Unidentified isomer I	1644	0.12%
57.699	Unidentified isomer I	1648	0.1%
58.087	Pogostol	1655	3.2%
58.444	Unidentified	1661	0.32%
58.566	Unidentified	1663	0.13%
58.884	Patchouli alcohol	1669	28.73%
59.143	Unidentified	1673	0.24%
59.349	Unidentified	1677	0.09%
59.564	Unidentified	1681	0.03%
59.955	Unidentified	1688	0.02%
60.047	Unidentified	1689	0.03%
60.526	Unidentified	1698	0.33%
60.834	Unidentified	1704	0.04%
61.140	Pogostone	1709	0.85%
61.300	Unidentified	1712	0.06%



Ret. Time	Component	Ret. Idx.	Conc. %	
61.435	Unidentified	1715	0.18%	
61.560	Unidentified	1717	0.06%	
61.729	Unidentified	1720	0.04%	
62.159	Unidentified	1728	0.11%	
62.357	Longifolol	1732	0.21%	
62.578	Unidentified	1736	0.01%	
63.179	Unidentified	1747	0.04%	
64.146	Unidentified	1765	0.08%	
64.609	Unidentified	1774	0.08%	
66.051	Unidentified	1801	0.05%	
66.424	Unidentified	1808	0.04%	
68.425	Unidentified	1847	0.03%	
69.263	Unidentified	1864	0.02%	
70.208	Unidentified	1882	0.04%	
77.886	Unidentified	2041	0.06%	
83.309	Unidentified	2161	0.17%	
88.441	Unidentified	2279	0.01%	
97.336	Unidentified	2499	0.12%	
98.866	Unidentified	2540	0.01%	

Total Identified Compounds **93.75 %**

