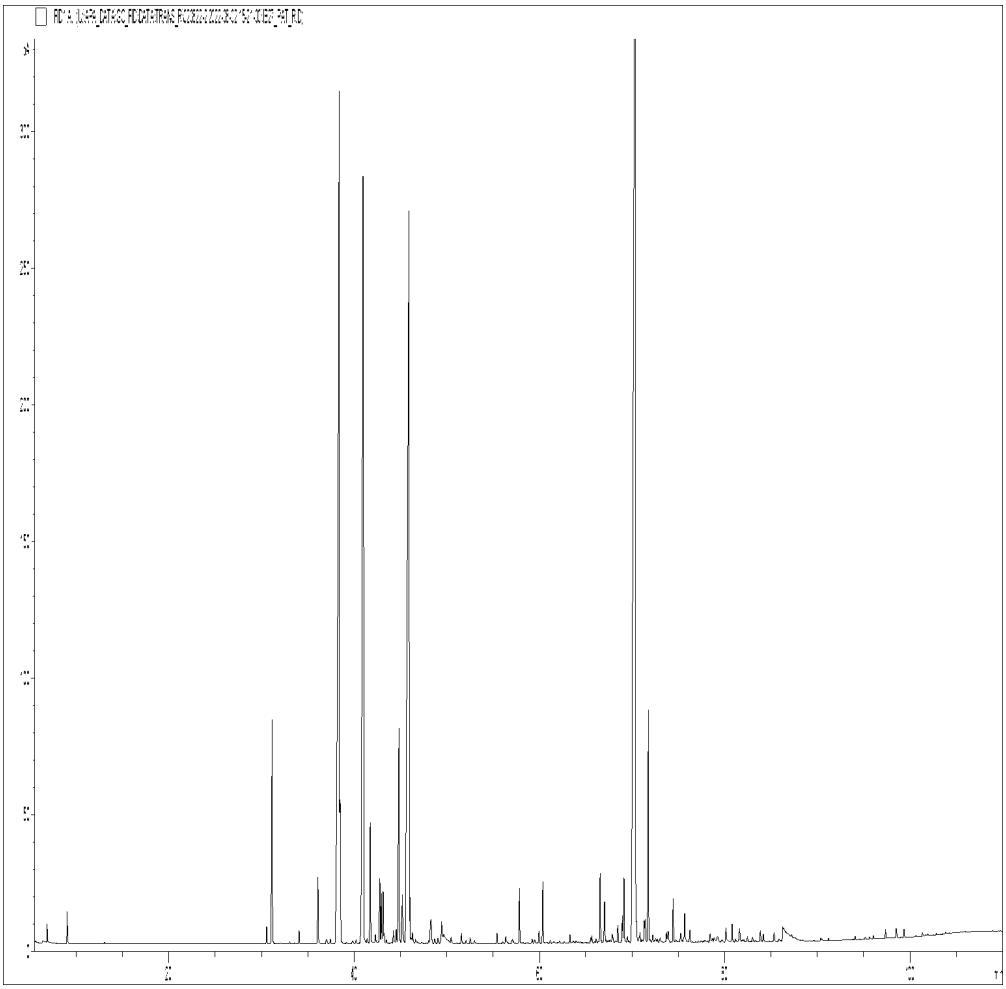
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Patchouli Essential Oil (Dark)
Botanical Name	Pogostemon cablin
Report Number	11109
Analysis Date	January 3, 2024

Note: This GC/MS report is a representative analysis of this product. Due to volume turnover, it is not specific to an individual lot; specific lots may vary slightly, as is the case with natural products. The lot-specific quality document for each batch is its Certificate of Analysis.

Chromatogram



Identified Compounds

Peak	RT (min)	Compound name	%
1	6.87	α-PINENE	0.11
2	9.03	β-PINENE	0.23
3	13.07	LIMONENE	0.02
4	30.57	δ-ELEMENE	0.12
5	31.17	β-PATCHOULENE	2.28
6	32.06	α-COPAENE	0.01
7	33.06	SESQUITERPENE	0.02
8	34.07	PENTADECANE	0.11
9	36.10	CYCLOSEYCHELLENE	0.61
10	37.00	SESQUITERPENE	0.03
11	37.05	SESQUITERPENE	0.04
12	37.44	SESQUITERPENE	0.05
13	38.38	β-ELEMENE	14.50
14		α-GUAIENE	
15	38.49	β-CARYOPHYLLENE	1.85
16	39.84	COPACAMPHENE	0.04
17	40.22	SESQUITERPENE	0.03
18	40.90	α-PATCHOULENE	4.85
19	40.97	SEYCHELLENE	8.23
20	41.41	SESQUITERPENE	0.05
21	41.76	γ-PATCHOULENE	0.98
22	42.32	SESQUITERPENE	0.07
23	42.78	α-HUMULENE	0.56
24	42.96	SESQUITERPENE	0.39
25	43.14	E-β-FARNESENE	0.45
26	43.26	γ-SELINENE	0.08
27	43.51	4,5-di-epi-ARISTOLOCHENE	0.03
28	44.01	SESQUITERPENE	0.02
29	44.24	CALARENE ISOMER	0.11
30	44.56	SESQUITERPENE Mw=202	0.14
31	44.85	ACIPHYLLENE	2.34
32	45.20	PATCHOULENE ISOMER	0.58
33		β-CHAMIGRENE	
34	45.94	α-BULNESENE	16.06
35	46.01	SESQUITERPENE	0.43
36	46.14	α-SELINENE	0.07
37	46.29	β-SELINENE	0.10
38	46.41	SESQUITERPENE	0.03
39	46.64	SESQUITERPENE Mw=202	0.05
40	46.83	BICYCLOGERMACRENE	0.02
41	47.30	SESQUITERPENE	0.02
42	47.83	E,E-α-FARNESENE	0.02
43	48.06	δ-CADINENE	0.03
44	48.31	7-epi-α-SELINENE	0.44
45		SESQUITERPENE Mw=202	
46	48.70	SESQUITERPENE Mw=202	0.06
47	49.06	SESQUITERPENE Mw=202	0.07
48	49.46	SESQUITERPENE Mw=202	0.23
49	49.56	SESQUITERPENE Mw=202	0.06
50	49.68	SESQUITERPENE Mw=202	0.36
51	50.49	SESQUITERPENE Mw=202	0.08
52	51.60	SESQUITERPENE Mw=202	0.09
53	52.09	GERMACRENE B	0.03
54	52.54	SESQUITERPENE Mw=202	0.05

55	53.01	SESQUITERPENIC OXIDE	0.04
56	55.44	SESQUITERPENIC OXIDE	0.09
57	56.06	AROMATIC COMPOUND	0.02
58	56.37	AROMATIC COMPOUND	0.06
59	57.09	AROMATIC COMPOUND	0.06
60	57.86	SESQUITERPENIC OXIDE GCMS ANALYSIS (cont'd ,)	0.45
61	59.23	SESQUITERPENIC OXIDE	0.04
62	59.50	SESQUITERPENIC OXIDE	0.05
63	59.97	ISOCARYOPHYLLENE OXIDE	0.10
64	60.38	CARYOPHYLLENE OXIDE	0.52
65	60.79	SESQUITERPENIC OXIDE	0.02
66	61.17	AROMATIC COMPOUND	0.03
67	61.56	SESQUITERPENIC OXIDE	0.02
68	62.16	SESQUITERPENIC OXIDE	0.02
69	62.67	SESQUITERPENIC OXIDE	0.02
70	63.31	EPOXY-6,7-HUMULENE	0.08
71	63.69	AROMATIC COMPOUND	0.03
72	63.96	NEROLIDOL	0.04
73	64.20	SESQUITERPENIC OXIDE	0.01
74	64.28	AROMATIC COMPOUND	0.01
75	64.93	SESQUITERPENIC OXIDE	0.02
76	65.54	SESQUITERPENIC OXIDE	0.04
77	65.67	ELEMOL	0.07
78	65.97	SESQUITERPENIC OXIDE	0.02
79	66.14	GUAIOL	0.05
80	66.36	SESQUITERPENIC OXIDE	0.01
81	66.56	NORPATCHOULENOL	0.66
82	67.05	1,5-epoxy-α-GUAIENE	0.47
83	67.22	SESQUITERPENIC OXIDE	0.03
84	67.41	SESQUITERPENIC OXIDE	0.04
85	67.62	SESQUITERPENIC OXIDE	0.04
86	67.87	SESQUITERPENIC OXIDE	0.13
87	68.21	SESQUITERPENIC OXIDE	0.03
88	68.35	SESQUITERPENIC OXIDE	0.01
89	68.48	SESQUITERPENIC OXIDE	0.16
90	68.97	SESQUITERPENOL	0.26
91	69.14	BULNESOL ISOMER	0.57
92	69.52	SESQUITERPENIC OXIDE	0.07
93	69.68	SESQUITERPENIC OXIDE	0.02
94	70.38	PATCHOULOL	30.48
95	70.40	SESQUITERPENIC OXIDE	0.18
96	70.81	SESQUITERPENIC OXIDE	0.05
97	70.87	SESQUITERPENIC OXIDE	0.09
98	71.05	SESQUITERPENIC OXIDE	0.03
99	71.33	SESQUITERPENONE	0.21
100	71.44	SESQUITERPENOL	0.23
101	71.78	POGOSTOL	2.07
102	71.96	AROMATIC COMPOUND	0.04
103	72.24	AROMATIC COMPOUND	0.08
104	72.43	SESQUITERPENIC OXIDE	0.02
105	72.56	SESQUITERPENIC OXIDE	0.05
106	72.75	SESQUITERPENIC OXIDE	0.04
107	73.05	SESQUITERPENIC OXIDE	0.08
108	73.28	SESQUITERPENIC OXIDE	0.01
109	73.74	EUDESMA-7(11)-EN-4-OL	0.11
110	73.91	β-NOOTKATOL	0.15
111	74.45	SESQUITERPENONE	0.39

112	74.72	AROMATIC COMPOUND	0.04
113	75.26	SESQUITERPENIC OXIDE	0.10
114	75.42	SESQUITERPENIC OXIDE	0.02
115	75.61	CARYOPHYLLA-2,6-DIEN-5-α-OL	0.04
116	75.69	SESQUITERPENIC OXIDE	0.29
117	76.25	SESQUITERPENONE	0.13
118	77.19	SESQUITERPENIC OXIDE	0.01
119	77.52	SESQUITERPENIC OXIDE	0.01
120	77.85	SESQUITERPENIC OXIDE	0.04
121	78.13	SESQUITERPENIC OXIDE	0.02
122	78.45	SESQUITERPENIC OXIDE	0.10
123	78.70	SESQUITERPENIC OXIDE	0.06
124	78.86	SESQUITERPENIC OXIDE	0.07
125	79.23	SESQUITERPENIC OXIDE	0.13
126	79.73	SESQUITERPENIC OXIDE	0.04
127	80.15	SESQUITERPENONE	0.20
128	80.82	SESQUITERPENIC OXIDE	0.17
129	81.19	AROMATIC COMPOUND	0.04
130	81.62	KETONIC COMPOUND	0.16
131	81.88	SESQUITERPENIC OXIDE	0.02
132	82.08	AROMATIC COMPOUND	0.04
133	82.46	SESQUITERPENIC OXIDE	0.06
134	83.03	SESQUITERPENIC OXIDE	0.05
135	83.27	SESQUITERPENONE	0.02
136	83.86	AROMATIC COMPOUND	0.13
137	84.19	ZIERONE	0.08
138	85.35	SESQUITERPENONE	0.10
139	85.89	SESQUITERPENIC OXIDE	0.04
140	86.26	POGOSTONE	1.14
141	87.25	AROMATIC COMPOUND	0.03
142	90.40	PHYTOL	0.03
143	90.53	AROMATIC COMPOUND	0.02
144	91.21	COMPOUND Mw=236	0.02
145	94.11	AROMATIC COMPOUND	0.04
146	95.19	COMPOUND Mw=234	0.03
147	95.66	COMPOUND Mw=234	0.03
148	96.06	COMPOUND Mw=234	0.04
149	97.38	SESQUITERPENIC OXIDE	0.09
150	98.55	AROMATIC COMPOUND GCMS ANALYSIS (cont'd ,)	0.10
151	99.37	CORYMBOLONE	0.08
152	101.37	SESQUITERPENIC OXIDE	0.04
153	101.96	KETONIC COMPOUND	0.02
154	102.87	SESQUITERPENIC OXIDE	0.02
155	103.85	SESQUITERPENIC OXIDE	0.02
		TOTAL	**99.76**

Faithful copy of the GC/MS analysis report. The original document is kept in the MALIKA Essentials archives.