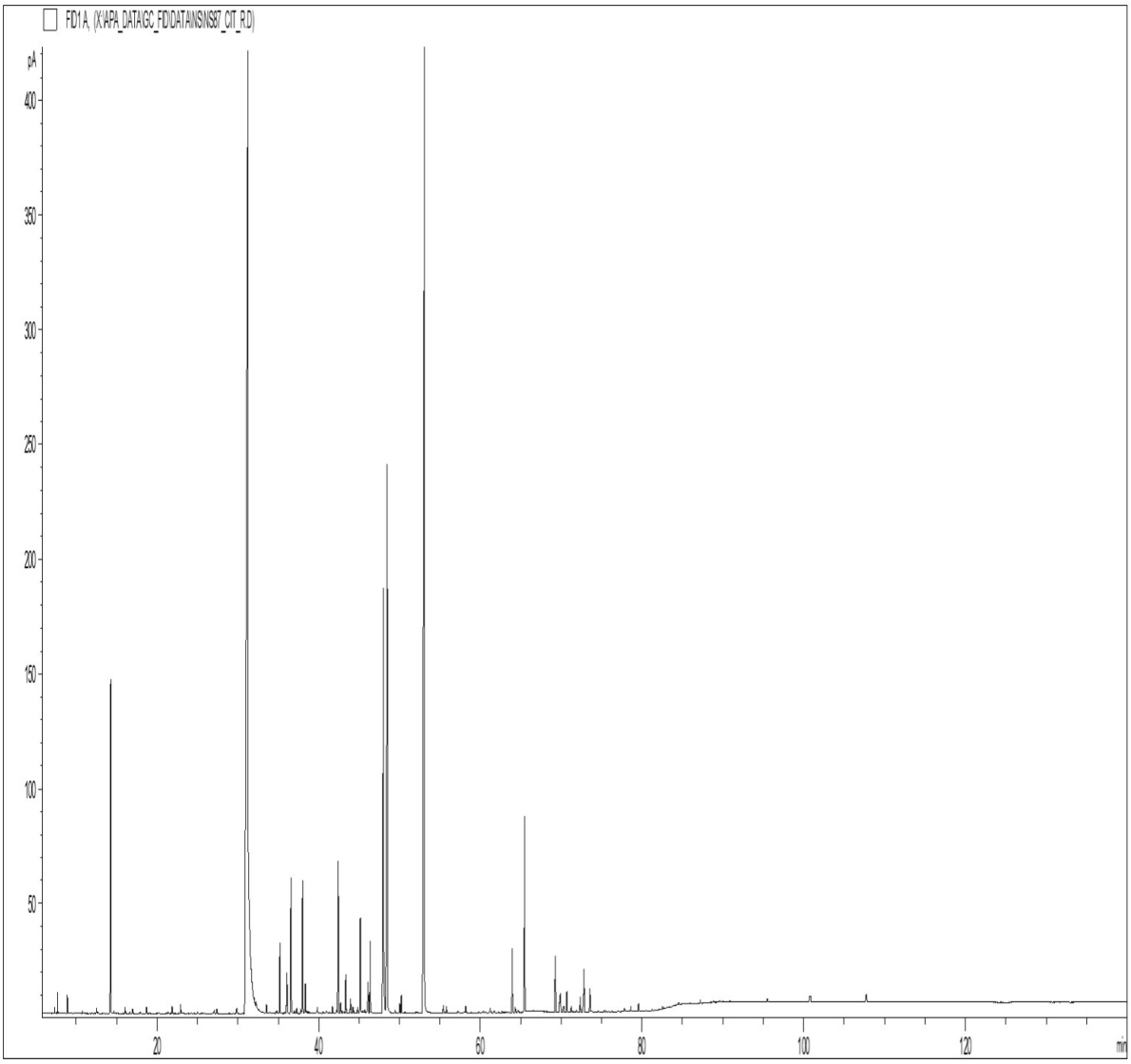
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Citronella Java Essential Oil
Botanical Name	Cymbopogon winterianus
Analysis Date	June 20, 2025

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	7.37	TRICYCLENE	0.04
2	7.70	alpha-PINENE	0.13
3	8.92	CAMPHENE	0.13
4	10.79	SABINENE	0.01
5	12.51	beta-MYRCENE	0.04
6	12.64	alpha-PHELLANDRENE	0.01
7	14.27	LIMONENE	3.17
8	14.70	beta-PHELLANDRENE	0.02
9	16.06	cis-beta-OCIMENE	0.05
10	16.65	gamma-TERPINENE	0.01
11	16.98	trans-beta-OCIMENE	0.04
12	18.72	TERPINOLENE	0.06
13	21.38	4-NONANONE	0.02
14	21.88	5-HEPTEN-2-ONE, 6-METHYL-	0.08
15	22.93	5-HEPTENAL, 2,6-DIMETHYL-	0.10
16	27.08	cis-p-MENTHANE-8-OL	0.03
17	27.42	trans-p-MENTHANE-8-OL	0.05

18	29.86	MENTHONE	0.07
19	31.24	CITRONELLAL	37.86
20	32.05	alpha-COPAENE	0.03
21	32.26	COMPOUND Mw=128	0.05
22	33.54	beta-BOURBONENE	0.10
23	34.81	beta1-CUBEBENE	0.03
24	35.18	LINALOOL	0.72
25	35.77	1-OCTANOL	0.02
26	36.04	NEOISOPULEGOL	0.49
27	36.56	ISOPULEGOL	1.61
28	36.97	epsilon-CADINENE	0.03
29	37.26	ELEMENE ISOMER	0.06
30	37.77	alpha-trans-BERGAMOTENE	0.05
31	38.00	beta-ELEMENE	1.64
32	38.33	beta-CARYOPHYLLENE	0.35
33	38.49	ROSEFURAN OXIDE	0.04
34	38.68	TERPINENE-4-OL	0.02
35	38.85	COMPOUND Mw=154	0.01
36	39.75	COMPOUND Mw=154	0.02
37	39.84	ISOISOPULEGOL	0.08
38	40.50	CADINA-3,5-DIENE	0.02
39	40.93	GERMACRENE A	0.03
40	41.02	SESQUITERPENE	0.01
41	41.67	MELONOL	0.08
42	42.21	ZONARENE	0.04
43	42.41	CITRONELLYL ACETATE	1.87
44	42.70	alpha-HUMULENE	0.14
45	42.88	cis-4,5-MUUROLADIENE	0.03
46	43.11	E-beta-FARNESENE	0.03
47	43.34	NERAL	0.45
48	43.93	gamma-MUUROLENE	0.17
49	44.22	alpha-TERPINEOL	0.07
50	44.34	BORNEOL	0.03
51	44.80	GERANYL FORMATE	0.06
52	45.14	GERMACRENE D	1.22
53	45.30	SESQUITERPENE	0.02
54	45.43	SESQUITERPENE	0.04
55	45.66	beta-SELINENE	0.07
56	45.89	PIPERITONE	0.01
57	46.09	alpha-MUUROLENE	0.41
58	46.36	GERANIAL	0.84
59	46.53	BICYCLOGERMACRENE	0.02
60	47.99	GERANYL ACETATE	4.46
61	48.01	delta-CADINENE	1.44
62	48.07	gamma-CADINENE	0.85
63	48.20	SESQUITERPENE	0.05
64	48.47	CITRONELLOL	9.80
65	49.44	CADINA-1,4-DIENE	0.04
66	50.01	alpha-AMORPHENE	0.11
67	50.21	NEROL	0.20
68	50.62	CITRONELLYL BUTYRATE	0.01
69	52.00	GERMACRENE B	0.01
70	52.20	CALAMENENE	0.02
71	53.07	GERANIOL	21.81
72	55.42	Epi-CUBEBOL	0.08
73	55.79	GERANYL BUTYRATE	0.08
74	57.22	alpha-CALACORENE	0.03
75	58.04	CYCLIC COMPOUND	0.01

76	58.19	SESQUITERPENIC COMPOUND	0.09
77	59.80	CUBEBOL	0.01
78	60.36	OXIDE COMPOUND	0.02
79	60.59	OXIDE COMPOUND	0.02
80	61.21	SESQUITERPENIC COMPOUND	0.08
81	61.72	METHYLEUGENOL	0.03
82	62.21	SESQUITERPENIC COMPOUND	0.01
83	62.68	SESQUITERPENIC COMPOUND	0.02
84	63.49	COMPOUND Mw=198	0.02
85	63.94	GERMACRENE D-4-OL	0.80
86	64.30	Epi-CUBENOL	0.06
87	64.52	SESQUITERPENOL	0.01
88	64.67	CUBENOL	0.04
89	65.46	ELEMOL	2.92
90	66.57	10-epi-gamma-EUDESMOL	0.02
91	67.96	SESQUITERPENOL	0.02
92	69.27	EUGENOL	0.71
93	69.79	gamma-EUDESMOL	0.20
94	69.90	T-CADINOL	0.23
95	70.23	CITRONELLYL CITRONELLATE	0.05
96	70.32	METHYLISOEUGENOL	0.08
97	70.69	alpha-MUUROLOL	0.27
98	71.23	delta-CADINOL	0.08
99	71.87	SESQUITERPENOL	0.03
100	72.34	alpha-EUDESMOL	0.20
101	72.72	beta-EUDESMOL	0.19
102	72.82	alpha-CADINOL	0.57
103	73.54	CITRONELLIC ACID	0.29
104	73.79	EUDESMA-7(11)-EN-4-OL	0.02
105	74.58	ALIPHATIC ESTER	0.02
106	75.33	ALIPHATIC ESTER	0.02
107	75.87	ALIPHATIC ESTER	0.02
108	77.82	ISOEUGENOL	0.05
109	78.60	E,E-FARNESOL	0.06
110	78.75	ALIPHATIC ESTER	0.01
111	79.56	GERANYLGERANIOL	0.10
112	80.50	CITRONELLIC ESTER	0.01
113	81.24	ISOEUGENYL ACETATE	0.02
114	82.50	CITRONELLIC ESTER	0.03
115	84.52	10-HYDROXY-OPLOPANONE	0.03
116	85.22	VANILLIN	0.01
117	87.22	CITRONELLIC ESTER	0.03
118	88.85	ALIPHATIC ESTER	0.02
119	89.60	CITRONELLIC ESTER	0.01
120	89.67	KETONIC COMPOUND	0.02
121	90.02	SESQUITERPENIC COMPOUND	0.02
122	90.88	CITRONELLIC ESTER	0.02
123	95.53	CITRONELLIC ESTER	0.05
124	100.80	CITRONELLIC ESTER	0.18
125	107.77	CITRONELLIC ESTER	0.17
		TOTAL	**99.88**

Note: The source report states TOTAL 99.88.

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