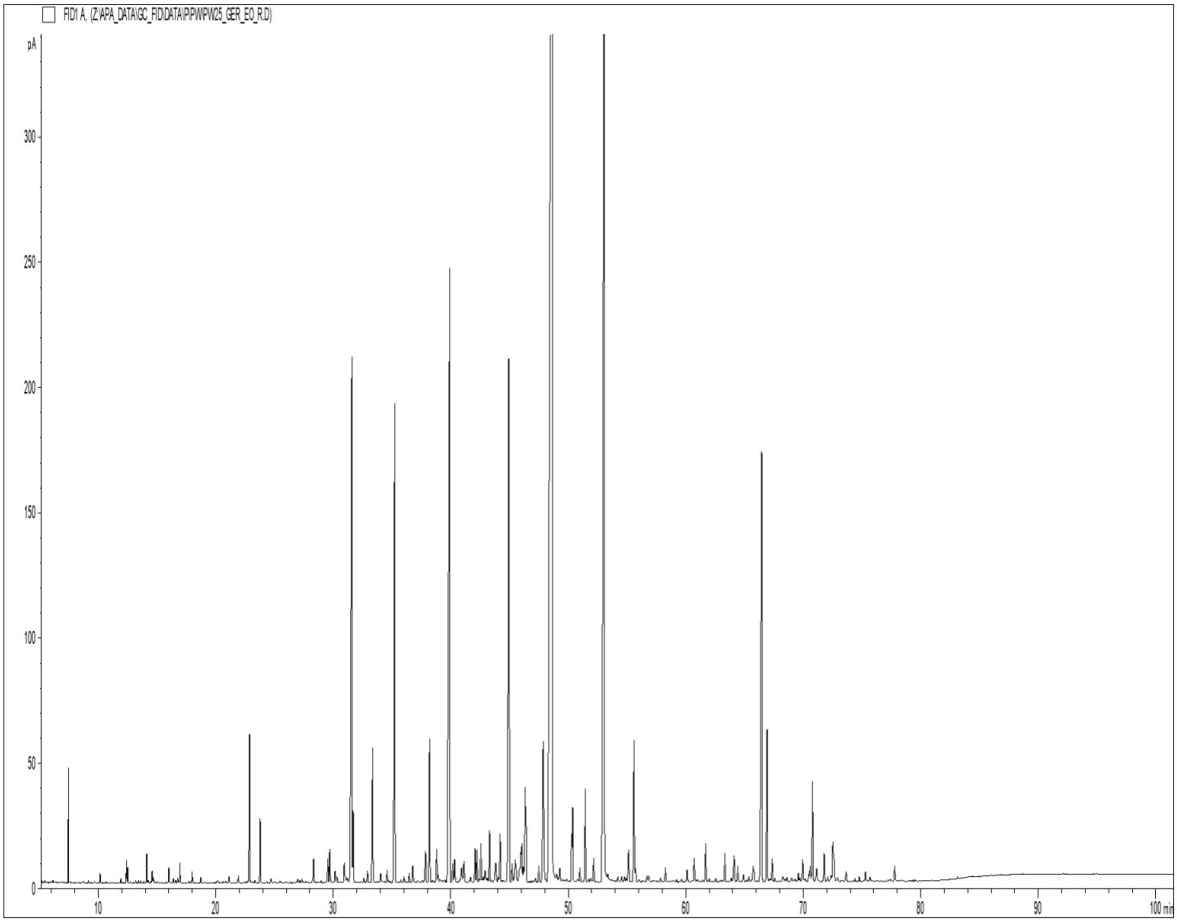
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Geranium Essential Oil (Egyptian)
Botanical Name	Pelargonium graveolens
Analysis Date	September 24, 2026

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	7.45	alpha-PINENE	0.44
2	–	DEHYDROXYLINALOOL OXIDE A	
3	10.15	beta-PINENE	0.05
4	11.93	gamma-PYRONENE	0.02
5	12.39	beta-MYRCENE	0.11
6	12.50	alpha-PHELLANDRENE	0.08
7	14.11	LIMONENE	0.16
8	–	beta-PHELLANDRENE	
9	14.58	1,8-CINEOLE	0.07
10	14.68	cis-ARBUSCULON	0.03
11	16.01	cis-beta-OCIMENE	0.09
12	16.39	trans-ARBUSCULON	0.03
13	16.60	gamma-TERPINENE	0.02
14	16.75	COMPOUND Mw=122	0.04
15	16.94	trans-beta-OCIMENE	0.12
16	17.98	p-CYMENE	0.07
17	18.71	TERPINOLENE	0.03
18	20.18	TERPENIC COMPOUND	0.02
19	21.11	1-PENTANOL, 3-METHYL-	0.05
20	21.93	5-HEPTEN-2-ONE, 6-METHYL-	0.05
21	22.87	ROSE cis-OXIDE	1.02
22	23.78	ROSE trans-OXIDE	0.43
23	24.70	ALIPHATIC ESTER	0.04
24	26.98	cis-p-MENTHANE-8-OL	0.03
25	27.16	PERILLENE	0.02
26	27.33	trans-p-MENTHANE-8-OL	0.02
27	28.32	LINALOOL cis-OXIDE	0.19
28	29.53	alpha-CUBEBENE	0.19
29	29.70	MENTHONE	0.25
30	30.15	LINALOOL trans-OXIDE	0.09
31	30.31	SESQUITERPENE	0.05
32	30.93	CITRONELLAL	0.17
33	31.00	BICYCLOELEMENE	0.04
34	31.18	YLANGENE	0.04
35	31.58	ISOMENTHONE	5.72
36	31.69	alpha-COPAENE	0.50
37	32.59	EXO-ISOCITRAL	0.03
38	32.91	alpha-BOURBONENE	0.09
39	33.34	beta-BOURBONENE	1.12
40	34.04	alpha-GURJUNENE	0.07
41	34.58	beta1-CUBEBENE	0.10
42	34.71	SESQUITERPENE	0.02
43	35.23	LINALOOL	3.93
44	35.75	DIMETHYL SULFOXIDE	0.02
45	36.03	NEOISOPULEGOL	0.05
46	36.47	ISOPULEGOL	0.07
47	36.78	epsilon-CADINENE	0.15
48	37.19	METHYL THYMOL ETHER	0.03
49	37.60	alpha-trans-BERGAMOTENE	0.03
50	–	3,5-HEPTADIENE-2-ONE, 6-METHYL-	
51	37.85	beta-CUBEBENE	0.28
52	38.21	beta-CARYOPHYLLENE	1.17
53	38.46	TERPINENE-4-OL	0.02
54	38.81	6,9-GUAIADIENE	0.28
55	38.93	SESQUITERPENE	0.05

56	39.08	TERPENIC COMPOUND	0.05
57	39.54	COMPOUND Mw=152	0.02
58	39.91	CITRONELLYL FORMATE	7.76
59	40.17	NEOISOMENTHOL	0.16
60	40.34	CADINA-3,5-DIENE	0.21
61	40.93	SESQUITERPENE	0.19
62	41.13	ALLO-AROMADENDRENE	0.21
63	41.71	SESQUITERPENE	0.06
64	42.07	ZONARENE	0.27
65	42.25	CITRONELLYL ACETATE	0.25
66	42.42	TERPENIC COMPOUND	0.03
67	42.57	alpha-HUMULENE	0.31
68	42.69	cis-4,5-MUUROLADIENE	0.02
69	42.79	NERYL FORMATE	0.05
70	42.93	SESQUITERPENE	0.13
71	43.12	Z-OCIMENOL	0.04
72	43.31	NERAL	0.40
73	43.48	SESQUITERPENE	0.02
74	43.83	gamma-MUUROLENE	0.27
75	44.06	SESQUITERPENE	0.04
76	–	alpha-TERPINEOL	
77	44.21	LEDENE	0.42
78	44.94	GERANYL FORMATE	5.32
79	45.23	GERMACRENE D	0.16
80	–	beta-SELINENE	
81	45.50	DIHYDRO-AGAROFURANE ISOMER	0.38
82	45.88	alpha-SELINENE	0.14
83	45.98	alpha-MUUROLENE	0.25
84	46.05	CITRONELLYL PROPIONATE	0.32
85	46.17	SESQUITERPENE	0.12
86	46.34	GERANIAL	0.78
87	46.38	BICYCLOGERMACRENE	0.48
88	46.91	TERPENIC COMPOUND	0.02
89	47.22	AROMATIC COMPOUND	0.04
90	47.50	E,E-alpha-FARNESENE	0.14
91	–	delta-CADINENE	
92	47.88	gamma-CADINENE	1.74
93	48.07	7-epi-alpha-SELINENE	0.03
94	48.64	CITRONELLOL	31.59
95	49.02	SESQUITERPENE	0.11
96	49.29	CADINA-1,4-DIENE	0.18
97	49.53	gamma-GERANIOL	0.03
98	49.69	MYRTENOL	0.03
99	49.90	alpha-AMORPHENE	0.05
100	50.29	NEROL	0.38
101	50.38	CITRONELLYL BUTYRATE	0.54
102	50.81	CITRONELLIC ESTER	0.05
103	51.00	NERYL ISOBUTYRATE	0.12
104	51.46	GERANYL PROPIONATE	0.71
105	51.73	TERPENIC COMPOUND	0.03
106	51.92	GERMACRENE B	0.04
107	52.17	trans-CALAMENENE	0.20
108	53.07	GERANIOL	13.24
109	53.36	AROMATIC COMPOUND	0.13
110	54.24	2,5-DIMETHOXY-p-CYMENE	0.06
111	54.55	TERPENIC COMPOUND	0.06

112	54.78	PHENYLETHYLIC ESTER	0.05
113	54.94	PHENYLETHYLIC ESTER	0.04
114	55.14	alpha-AGAROFURAN	0.32
115	55.60	GERANYL BUTYRATE	1.21
116	55.74	CITRONELLIC ESTER	0.09
117	56.02	gamma-DEHYDRO-ar-HIMACHALENE	0.03
118	56.37	PHENYLETHYL ALCOHOL	0.02
119	56.71	alpha-CALACORENE	0.06
120	56.84	COMPOUND Mw=220	0.07
121	57.26	PALUSTROL	0.03
122	57.87	CUBEBOL	0.04
123	58.27	CITRONELLIC ESTER	0.12
124	59.21	COMPOUND Mw=202	0.02
125	59.65	PHENYLETHYLIC ESTER	0.03
126	60.12	CARYOPHYLLENE OXIDE	0.12
127	60.56	TERPENIC COMPOUND	0.02
128	60.73	CITRONELLIC ESTER	0.22
129	60.96	COMPOUND Mw=220	0.02
130	61.45	SESQUITERPENIC COMPOUND	0.02
131	61.70	CITRONELLYL TIGLATE	0.32
132	61.99	ALIPHATIC ESTER	0.03
133	62.55	LEDOL	0.03
134	63.06	EPOXY-6,7-HUMULENE	0.02
135	63.33	NERYL CAPROATE	0.22
136	63.88	GLEENOL	0.04
137	–	Epi-CUBENOL	
138	64.12	JUNENOL	0.29
139	64.43	CUBENOL	0.14
140	64.91	GLOBULOL	0.08
141	65.21	ELEMOL	0.02
142	65.39	VIRIDIFLOROL	0.05
143	65.70	FUROPELARGON	0.02
144	65.74	GERANYL CAPROATE	0.13
145	65.81	CITRONELLIC ESTER	0.08
146	66.11	AROMATIC COMPOUND	0.02
147	66.47	10-epi-gamma-EUDESMOL	4.67
148	66.93	GERANYL TIGLATE	1.32
149	67.19	ALIPHATIC ESTER	0.04
150	67.36	SPATHULENOL	0.19
151	67.59	PENTADECANONE, TRIMETHYL-	0.03
152	68.28	7-epi-beta-EUDESMOL	0.08
153	68.47	ALIPHATIC ESTER	0.03
154	68.62	COMPOUND Mw=220	0.04
155	69.02	COMPOUND Mw=236	0.05
156	69.23	TERPENIC COMPOUND	0.02
157	69.35	SESQUITERPENOL	0.03
158	69.59	gamma-EUDESMOL	0.07
159	69.72	T-CADINOL	0.03
160	69.96	AGAROSPIROL	0.21
161	70.18	SESQUITERPENOL	0.03
162	70.48	alpha-MUUROLOL	0.07
163	70.59	ALIPHATIC ESTER	0.13
164	70.80	2-PHENYLETHYL TIGLATE	0.82
165	–	COMPOUND Mw=218	

166	71.16	delta-CADINOL	0.18
167	71.79	VALERIANOL	0.25
168	72.09	alpha-EUDESMOL	0.04
169	72.37	SESQUITERPENOL	0.07
170	72.53	beta-EUDESMOL	0.43
171	72.62	4-HYDROXY-DIHYDRO-alpha-AGAROFURAN	0.18
172	72.93	ALIPHATIC ESTER	0.05
173	73.60	EUDESMA-7(11)-EN-4-OL	0.04
174	73.65	CITRONELLIC ACID	0.07
175	74.41	AROMATIC COMPOUND	0.03
176	74.77	ALIPHATIC ESTER	0.04
177	75.31	ALIPHATIC ESTER	0.09
178	75.69	JUNIPER CAMPHOR	0.06
179	77.46	COMPOUND Mw=220	0.02
180	77.79	GERANIC ACID	0.15
181	78.37	COMPOUND Mw=220	0.02
182	79.49	AROMATIC COMPOUND	0.02
		TOTAL	**99.66**

In the source report, peaks 2 (DEHYDROXYLINALOOL OXIDE A), 8 (beta-PHELLANDRENE), 50 (3,5-HEPTADIENE-2-ONE, 6-METHYL-), 76 (alpha-TERPINEOL), 80 (beta-SELINENE), 91 (delta-CADINENE), 137 (Epi-CUBENOL) and 165 (COMPOUND Mw=218) are listed without RT or %; they co-elute with adjacent peaks.

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