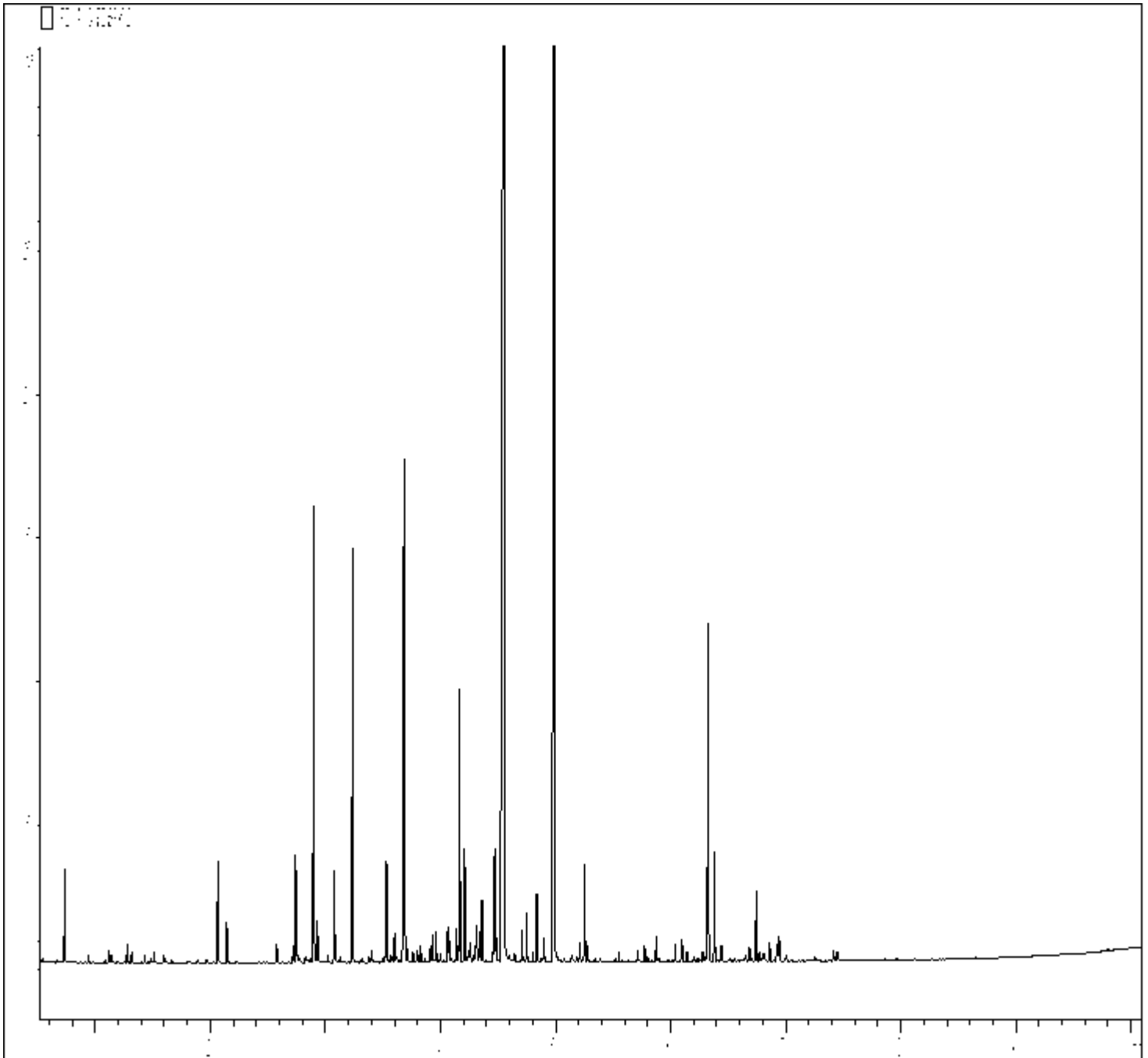


GCMS ANALYSIS

PRODUCT NAME: GERANIUM ESSENTIAL OIL (EGYPTIAN)-VERIFIED BY ECOCERT/COSMOS
APPROVED - 11062
DATE: April 23, 2021



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GERANIUM ESSENTIAL OIL (EGYPTIAN)-VERIFIED BY ECOCERT/COSMOS APPROVED - 11062

Peak	RT (min)	Compound name	%
1	6,69	alpha-PINENE	0,50
2	8,76	DEHYDROXYLINALOOL OXIDE A	0,06
3	10,16	gamma-PYRONENE	0,03
4	10,41	beta-MYRCENE	0,10
5	10,59	alpha-PHELLANDRENE	0,06
6	11,77	COMPOUND Mw=152	0,02
7	11,87	LIMONENE	0,16
8	12,27	1,8-CINEOLE	0,07
9		beta-PHELLANDRENE	
10	12,30	cis-ARBUSCULON	0,04
11	13,27	cis-beta-OCIMENE	0,07
12	13,65	trans-ARBUSCULON	0,03
13	13,80	AROMATIC COMPOUND Mw=122	0,02
14	13,84	gamma-TERPINENE	0,02
15	14,05	trans-beta-OCIMENE	0,11
16	14,98	p-CYMENE	0,10
17	15,60	TERPINOLENE	0,04
18	17,47	1-PENTANOL, 3-METHYL-	0,04
19	18,27	5-HEPTEN-2-ONE, 6-METHYL-	0,06
20	19,25	ROSE cis-OXIDE	1,05
21	20,04	ROSE trans-OXIDE	0,44
22	22,83	COMPOUND Mw=150	0,02
23	22,85	cis-p-MENTHANE-8-OL	0,02
24	23,13	trans-p-MENTHANE-8-OL	0,03
25	24,11	LINALOOL cis-OXIDE	0,21
26	25,41	alpha-CUBEBENE	0,12
27	25,60	MENTHONE	1,59
28	25,79	LINALOOL trans-OXIDE	0,11
29	26,18	SESQUITERPENE	0,05
30	26,55	CITRONELLAL	0,12

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
31	26,79	SESQUITERPENE	0,04
32	27,03	ISOGERANIAL	0,05
33	27,33	ISOMENTHONE	4,89
34	27,43	alpha-COPAENE	0,51
35	28,09	ISONERAL	0,03
36	28,55	COMPOUND Mw=152	0,05
37	28,58	alpha-BOURBONENE	0,05
38	28,99	beta-BOURBONENE	1,08
39	29,60	alpha-GURJUNENE	0,07
40	30,12	beta1-CUBEBENE	0,02
41	30,54	LINALOOL	4,40
42	31,26	1-OCTANOL	0,02
43	31,35	NEOISOPULEGOL	0,07
44	31,82	ISOPULEGOL	0,09
45	32,25	epsilon-CADINENE	0,16
46	32,54	ISOMENTHYL ACETATE	0,04
47	32,71	TERPENIC ESTER	0,03
48	33,07	3,5-HEPTADIENE-2-ONE, 6-METHYL-	0,09
49	33,23	beta-CUBEBENE	0,11
50	33,28	TERPINENE-4-OL	0,11
51	33,62	beta-CARYOPHYLLENE	1,20
52	34,17	6,9-GUAIADIENE	0,44
53	34,43	COMPOUND Mw=152	0,03
54	34,72	ALIPHATIC ESTER	0,03
55	35,16	CITRONELLYL FORMIATE	6,93
56	35,19	NEOISOMENTHOL	0,15
57	35,35	CADINA-3,5-DIENE	0,15
58	35,84	SESQUITERPENE	0,12
59	36,26	GERMACRENE A	0,16
60	36,52	ALLO-AROMADENDRENE	0,20

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
61	36,72	trans-PINOCARVEOL	0,05
62	37,35	ZONARENE	0,20
63	37,37	alpha-HUMULENE	0,31
64	37,65	NERYL FORMATE	0,03
65	37,81	CITRONELLYL ACETATE	0,42
66	38,17	cis-4,5-MUROLADIENE	0,15
67	38,41	NERAL	0,42
68	38,68	gamma-SELINENE	0,04
69	39,03	gamma-MUROLENE	0,33
70	39,25	alpha-TERPINEOL	0,42
71	39,42	LEDENE	0,15
72	39,98	GERANYL FORMIATE	2,69
73	40,24	GERMACRENE D	1,35
74	40,48	MUROLADIENE ISOMER	0,15
75	40,68	beta-SELINENE	0,16
76	40,70	COMPOUND Mw=220	0,07
77	40,72	alpha-SELINENE	0,07
78	40,90	alpha-MUROLENE	0,14
79	41,14	BICYCLOGERMACRENE	0,23
80	41,20	NERYL ACETATE	0,23
81	41,38	GERANIAL	1,07
82	41,59	CITRONELLYL PROPIONATE	0,41
83	42,18	cis-alpha-BISABOLENE	0,03
84	43,00	E,E-alpha-FARNESENE	0,05
85	43,09	delta-CADINENE	1,72
86		GERANYL ACETATE	
87	43,20	gamma-CADINENE	0,11
88	43,83	CITRONELLOL	32,37
89	44,22	SESQUITERPENE	0,06
90	44,32	NERYL PROPIONATE	0,07

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
91	44,50	alpha-AMORPHENE	0,03
92	44,76	CADINA-1,4-DIENE	0,11
93	45,22	NEROL	0,39
94	45,54	CITRONELLYL BUTYRATE	0,53
95	46,07	GERMACRENE B	0,03
96	46,14	NERYL BUTYRATE	0,09
97	46,54	GERANYL PROPIONATE	0,66
98	47,03	cis-CALAMENENE	0,08
99	47,22	trans-CALAMENENE	0,26
100	48,10	GERANIOL	14,05
101	48,30	GERANYL ISOBUTYRATE	0,06
102	48,57	E-GERANYL ACETONE	0,03
103	49,11	2-PHENYLETHYL ISOBUTYRATE	0,03
104	49,42	AROMATIC COMPOUND Mw=194	0,09
105	49,73	2-PHENYLETHYL BUTYRATE	0,04
106	49,84	Epi-CUBEBOL	0,02
107	49,92	ISOGERANIOL ISOMER	0,07
108	50,20	PHENYLETHYL ALCOHOL	0,03
109	50,38	alpha-AGAROFURANE	0,28
110	50,68	GERANYL BUTYRATE	0,98
111	50,75	NERYL METHYLBUTYRATE	0,08
112	50,80	alpha-CALACORENE	0,10
113	51,02	SESQUITERPENIC EPOXIDE	0,04
114	51,66	GERANYL METHYLBUTYRATE	0,07
115	51,90	CUBEBOL	0,07
116	52,93	beta-CALACORENE	0,03
117	53,40	CITRONELLYL METHYLVALERATE	0,12
118	55,17	CARYOPHYLLENE EPOXIDE	0,13
119	55,79	NERYL METHYLVALERATE	0,17
120	55,92	CITRONELLYL CAPROATE	0,06

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
121	56,77	CITRONELLYL TIGLATE	0,33
122	57,01	GERANYL METHYLVALERATE	0,03
123	57,57	LEDOL	0,03
124	58,08	PHOTOSANTALOL ISOMER	0,03
125	58,47	NERYL CAPROATE	0,19
126	58,89	JUNEOL	0,04
127	59,10	Epi-CUBENOL	0,32
128	59,43	CUBENOL	0,13
129	59,92	GLOBULOL	0,09
130	60,40	EUDESMOL ISOMER	0,07
131	60,66	AROMATIC COMPOUND	0,03
132	60,85	VIRIDIFLOROL	0,12
133	61,00	FUOPELARGONE	0,08
134	61,25	2-PHENYLETHYL METHYLVALERATE	0,02
135	61,55	10-epi-gamma-EUDESMOL	4,52
136	62,01	GERANYL TIGLATE	1,20
137	62,13	EUDESMA-5-EN-11-alpha-OL	0,03
138	62,33	SPATHULENOL	0,23
139	62,79	CITRONELIC ESTER	0,04
140	63,05	SESQUITERPENOL	0,03
141	63,24	EUDESMOL ISOMER	0,05
142	63,42	EUDESMOL ISOMER	0,04
143	63,57	SESQUITERPENOL	0,05
144	63,99	PENTADECANONE, TRIMETHYL-	0,04
145	64,22	EUGENOL	0,04
146	64,30	EUDESMOL ISOMER	0,04
147	64,54	gamma-EUDESMOL	0,08
148	64,67	T-CADINOL	0,04
149	64,91	AGAROSPIROL	0,20
150	65,15	VALERIANOL ISOMER	0,04

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
151	65,45	alpha-MUUROLOL	0,08
152	65,69	2-PHENYLETHYL TIGLATE	0,91
153	65,88	KETONIC COMPOUND	0,03
154	66,01	SESQUITERPENOL	0,04
155	66,11	SESQUITERPENOL	0,07
156	66,15	NERYL CAPRYLATE	0,07
157	66,31	SESQUITERPENOL	0,03
158	66,74	VALERIANOL	0,23
159	67,08	alpha-NOOTKATOL	0,06
160	67,27	alpha-CADINOL	0,06
161	67,48	4-HYDROXY-DIHYDRO-alpha-AGAROFURAN	0,25
162	67,50	COMPOUND Mw=162	0,17
163	67,53	beta-EUDESOL	0,22
164	68,10	EUDESMA-7(11)-EN-4-OL	0,03
165	68,33	CITRONELIC ACID	0,09
166	68,53	GERANYL CAPRYLATE	0,02
167	69,30	AROMATIC COMPOUND Mw=218	0,02
168	69,83	AROMATIC COMPOUND	0,04
169	70,36	ALIPHATIC ALCOHOL	0,05
170	70,48	TERPENIC ESTER	0,05
171	70,64	SESQUITERPENIC EPOXIDE	0,05
172	72,19	SESQUITERPENIC EPOXIDE	0,03
173	72,43	GERANIC ACID	0,17
174	73,30	GERANYL CITRONELLATE	0,03
175	74,19	AROMATIC COMPOUND	0,03
176	76,41	SESQUITERPENOL	0,03
177	83,10	COMPOUND Mw=220	0,03
178	96,00	SESQUITERPENIC COMPOUND	0,03
179	96,22	SESQUITERPENIC COMPOUND	0,02
		TOTAL	99,95

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