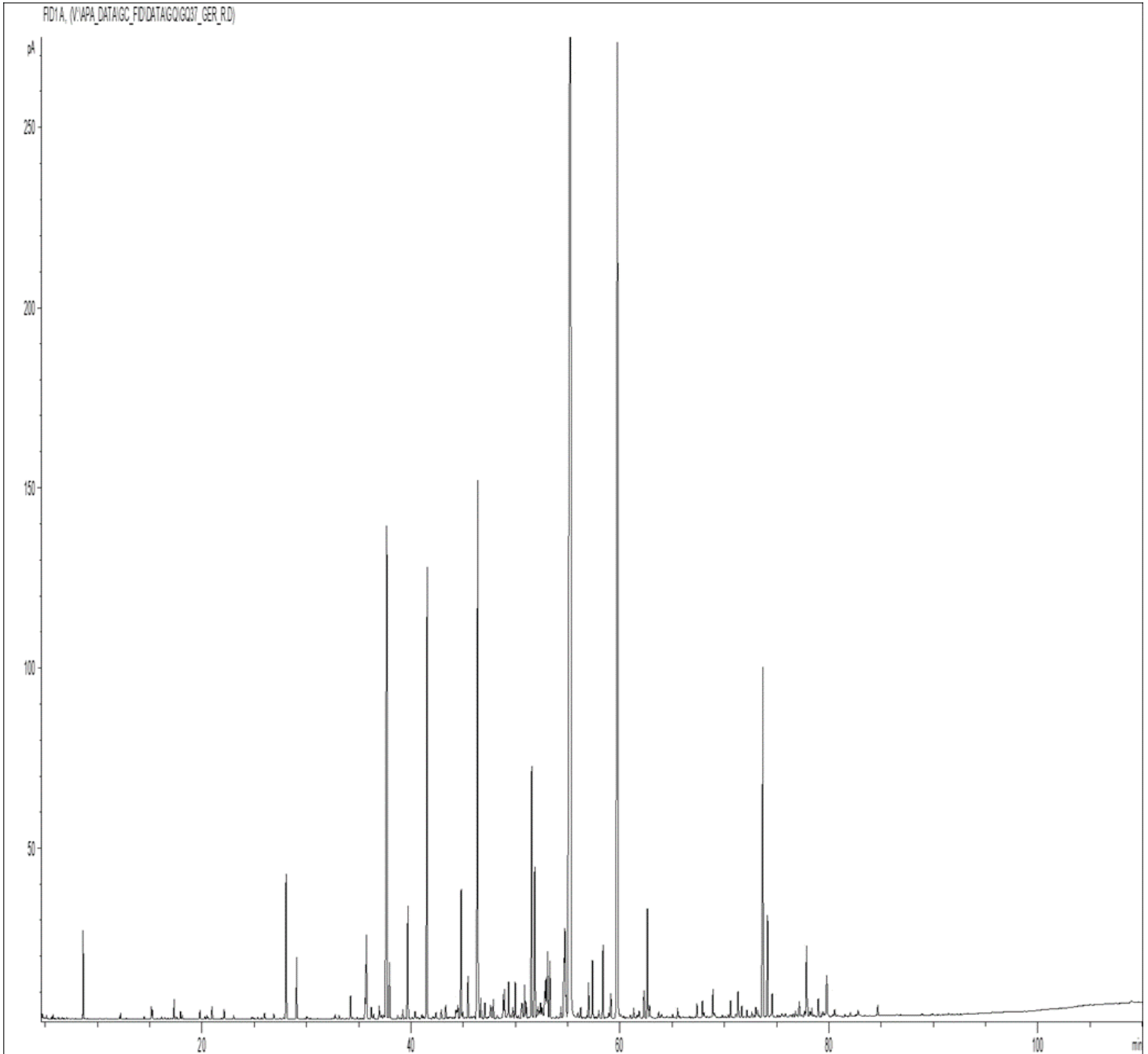


GCMS ANALYSIS

PRODUCT NAME: GERANIUM ORGANIC ESSENTIAL OIL - 50011

DATE: March 8, 2022



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 ORGANIC ESSENTIAL OIL – 50011

Peak	RT (min)	Compound name	%
1	8,62	alpha-PINENE	0,50
2	12,21	DEHYDROXYLINALOOL OXIDE A	0,04
3	15,15	beta-MYRCENE	0,09
4	15,24	alpha-PHELLANDRENE	0,07
5	17,33	LIMONENE	0,16
6	17,92	beta-PHELLANDRENE	0,07
7	18,10	cis-ARBUSCULON	0,03
8	19,79	cis-beta-OCIMENE	0,07
9	20,45	gamma-TERPINENE	0,03
10	20,94	trans-beta-OCIMENE	0,10
11	22,10	p-CYMENE	0,09
12	23,01	TERPINOLENE	0,03
13	25,97	1-PENTANOL, 3-METHYL-	0,05
14	26,85	5-HEPTEN-2-ONE, 6-METHYL-	0,05
15	28,03	ROSE cis-OXIDE	1,31
16	29,04	ROSE trans-OXIDE	0,55
17	32,73	cis-p-MENTHANE-8-OL	0,05
18	33,11	trans-p-MENTHANE-8-OL	0,03
19	34,21	LINALOOL cis-OXIDE	0,20
20	35,61	alpha-CUBEBENE	0,18
21	35,72	MENTHONE	0,80
22	36,19	LINALOOL trans-OXIDE	0,12
23	36,41	SESQUITERPENE	0,05
24	36,94	CITRONELLAL	0,14
25	37,17	SESQUITERPENE	0,05
26	37,37	TERPENIC KETONE	0,06
27	37,67	ISOMENTHONE	6,17
28	37,93	alpha-COPAENE	0,53
29	38,71	EXO-ISOCITRAL	0,03
30	39,20	alpha-BOURBONENE	0,09

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GERANIUM ORGANIC ESSENTIAL OIL – 50011

Peak	RT (min)	Compound name	%
31	39,68	beta-BOURBONENE	1,11
32	40,40	alpha-GURJUNENE	0,08
33	41,03	beta1-CUBEBENE	0,04
34	41,53	LINALOOL	4,34
35	42,39	NEOISOPULEGOL	0,06
36	42,90	ISOPULEGOL	0,08
37	43,32	epsilon-CADINENE	0,14
38	43,68	METHYL THYMOL ETHER	0,03
39	44,28	alpha-GUAIENE	0,08
40	44,38	beta-CUBEBENE	0,08
41	44,48	CALARENE ISOMER	0,15
42	44,79	beta-CARYOPHYLLENE	1,28
43	44,95	TERPINENE-4-OL	0,08
44	45,44	6,9-GUAIADIENE	0,42
45	45,74	SESQUITERPENE	0,03
46	46,38	CITRONELLYL FORMIATE	6,66
47	46,43	SESQUITERPENE	0,25
48	46,67	NEOISOMENTHOL	0,20
49	47,05	CADINA-3,5-DIENE	0,16
50	47,60	GERMACRENE A	0,18
51	47,87	ALLO-AROMADENDRENE	0,20
52	48,23	SESQUITERPENE	0,04
53	48,81	ZONARENE	0,23
54	48,93	alpha-HUMULENE	0,27
55	49,33	CITRONELLYL ACETATE	0,37
56	49,52	SESQUITERPENE	0,03
57	49,73	gamma-SELINENE	0,13
58	49,97	NERAL	0,35
59	50,58	gamma-MUUROLENE	0,13
60	50,63	CADINENE ISOMER	0,14

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GERANIUM ORGANIC ESSENTIAL OIL – 50011

Peak	RT (min)	Compound name	%
61	50,87	alpha-TERPINEOL	0,36
62	51,02	LEDENE	0,16
63	51,53	GERANYL FORMIATE	2,39
64	51,84	GERMACRENE D	1,63
65	52,13	CADINENE ISOMER	0,15
66	52,29	KETONIC COMPOUND	0,07
67	52,39	beta-SELINENE	0,17
68	52,52	alpha-SELINENE	0,12
69	52,61	SESQUITERPENE	0,05
70	52,80	alpha-MUUROLENE	0,31
71	52,90	BICYCLOGERMARENE	0,44
72	53,06	GERANIAL	0,70
73	53,29	CITRONELLYL PROPIONATE	0,59
74	54,34	delta-SELINENE	0,12
75	54,64	gamma-CADINENE	0,58
76	54,73	delta-CADINENE	1,01
77	54,82	GERANYL ACETATE	0,19
78	55,28	CITRONELLOL	32,94
79	56,23	CADINA-1,4-DIENE	0,12
80	56,82	SESQUITERPENE	0,03
81	56,98	NEROL	0,34
82	57,36	CITRONELLYL BUTYRATE	0,53
83	57,97	NERYL BUTYRATE	0,08
84	58,36	GERANYL PROPIONATE	0,67
85	58,92	COMPOUND Mw=154	0,07
86	59,11	trans-CALAMENENE	0,24
87	59,76	GERANIOL	13,34
88	60,10	p-CYMENE-8-OL	0,06
89	60,34	AROMATIC COMPOUND Mw=194	0,03
90	60,97	2-PHENYLETHYL ISOBUTYRATE	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GERANIUM ORGANIC ESSENTIAL OIL – 50011

Peak	RT (min)	Compound name	%
91	61,31	COMPOUND Mw=154	0,10
92	61,63	2-PHENYLETHYL BUTYRATE	0,03
93	61,82	COMPOUND Mw=154	0,08
94	62,29	alpha-AGAROFURAN	0,32
95	62,63	GERANYL BUTYRATE	1,05
96	62,80	CITRONELLYL ISOVALERATE	0,17
97	63,70	alpha-CALACORENE	0,06
98	63,97	GERANYL METHYLBUTYRATE	0,04
99	65,05	CUBEBOL	0,04
100	65,51	CITRONELLYL METHYLVALERATE	0,10
101	67,37	CARYOPHYLLENE OXIDE	0,16
102	67,89	NERYL METHYLVALERATE	0,17
103	68,04	CITRONELLYL CAPROATE	0,06
104	68,89	CITRONELLYL TIGLATE	0,28
105	69,01	GERANYL METHYLVALERATE	0,05
106	69,81	LEDOL	0,03
107	70,34	EPOXY-6,7-HUMULENE	0,03
108	70,57	NERYL CAPROATE	0,17
109	71,10	GLEENOL	0,04
110	71,30	Epi-CUBENOL	0,30
111	71,65	CUBENOL	0,12
112	72,15	GLOBULOL	0,09
113	72,61	SESQUITERPENOL	0,06
114	72,84	FUROPALARGON	0,03
115	73,01	VIRIDIFLOROL	0,12
116	73,18	CITRONELLYL HEPTANOATE	0,08
117	73,66	10-epi-gamma-EUDESMOL	4,08
118	74,12	GERANYL TIGLATE	1,01
119	74,56	SPATHULENOL	0,26
120	75,05	SESQUITERPENOL	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GERANIUM ORGANIC ESSENTIAL OIL – 50011

Peak	RT (min)	Compound name	%
121	75,46	PENTADECANONE, TRIMETHYL-	0,05
122	75,66	SESQUITERPENOL	0,03
123	75,82	SESQUITERPENOL	0,05
124	76,26	ALIPHATIC ESTER	0,03
125	76,38	SESQUITERPENOL	0,03
126	76,58	SESQUITERPENOL	0,04
127	76,79	gamma-EUDESOL	0,07
128	76,89	T-CADINOL	0,03
129	77,15	AGAROSPIROL	0,18
130	77,39	SESQUITERPENOL	0,03
131	77,68	SESQUITERPENOL	0,07
132	77,87	2-PHENYLETHYL TIGLATE	0,75
133	77,97	delta-CADINOL	0,08
134	78,19	CITRONELIC ESTER	0,09
135	78,38	NERYL CAPRYLATE	0,10
136	78,99	VALERIANOL	0,20
137	79,37	alpha-EUDESOL	0,05
138	79,51	SESQUITERPENOL	0,05
139	79,80	4-HYDROXY-DIHYDRO-alpha-AGAROFURAN	0,31
140	79,85	beta-EUDESOL	0,25
141	80,56	CITRONELIC ACID	0,09
142	81,55	beta-BISABOLENAL	0,03
143	82,07	NERIC ACID	0,05
144	82,62	AROMATIC COMPOUND	0,03
145	82,80	GERANYL CAPRYLATE	0,08
146	82,97	SESQUITERPENOL	0,04
147	84,69	GERANIC ACID	0,13
148	109,00	AROMATIC COMPOUND	0,04
		TOTAL	98,63

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