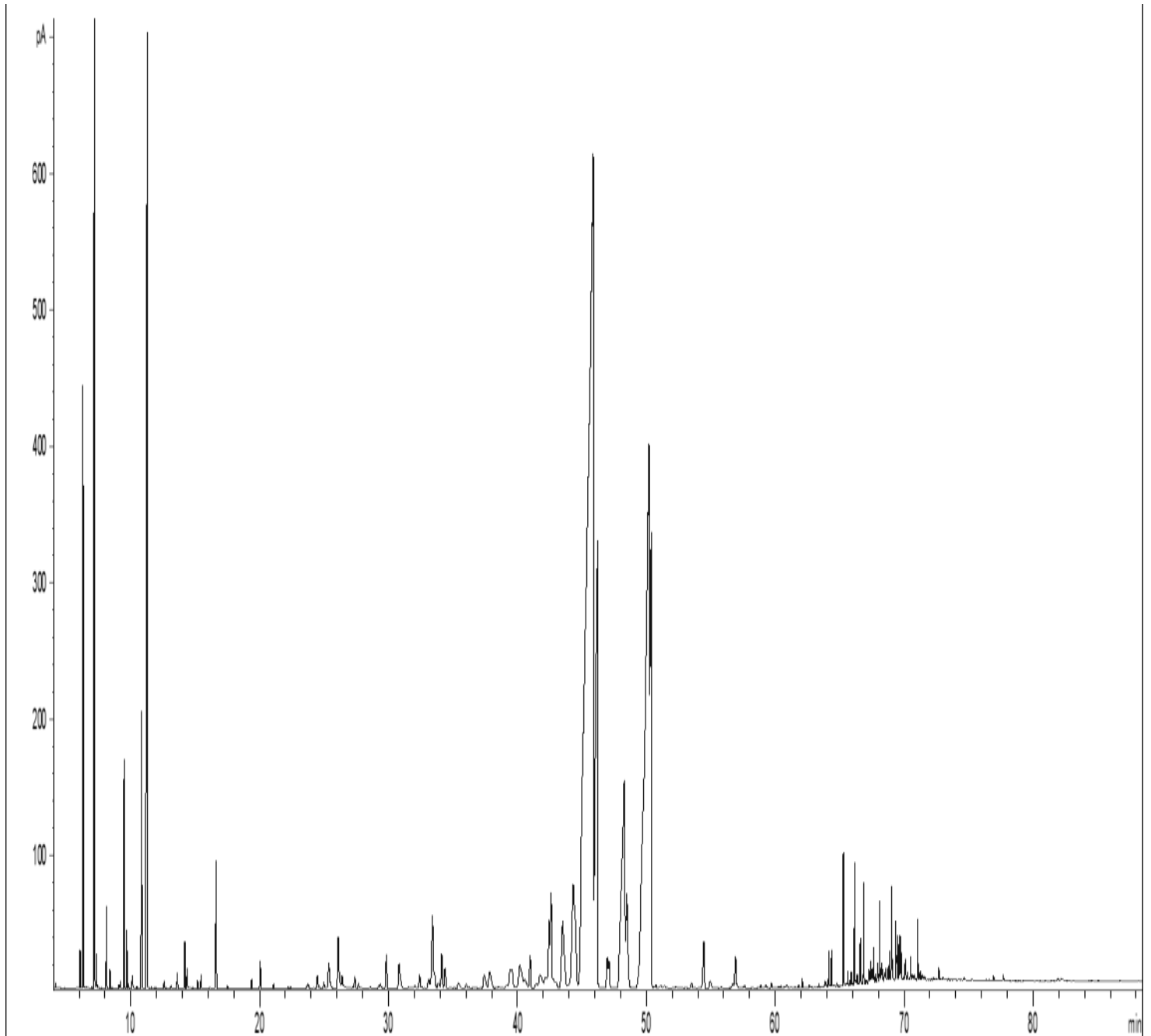


## GCMS ANALYSIS

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - 11063

DATE: December 22, 2020



*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: GINGER ROOT ESSENTIAL OIL (DRIED) - 11063

Peak	RT (min)	COMPOUND name	%
1	6,08	TRICYCLENENE	0,12
2	6,31	<b>alpha-PINENE</b>	<b>1,79</b>
3	7,20	<b>CAMPHERE</b>	<b>6,14</b>
4	7,36	HEXANAL	0,10
5	8,13	beta-PINENE	0,27
6	8,41	SABINENE	0,06
7	9,20	delta3-CARENE	0,02
8	9,49	beta-MYRCENE	0,78
9	9,70	alpha-PHELLANDRENE	0,20
10	10,13	2-HEPTANONE	0,06
11	10,85	LIMONENE	1,22
12	11,29	<b>beta-PHELLANDRENE</b>	<b>6,21</b>
13		1,8-CINEOLE	
14	12,59	gamma-TERPINENE	0,03
15	13,54	BORNYL METHYL ETHER	0,02
16	13,62	p-CYMENE	0,06
17	14,19	TERPINOLENE	0,19
18	14,38	OCTANAL	0,08
19	15,19	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0,04
20	15,46	2-HEPTANOL	0,05
21	16,63	5-HEPTEN-2-ONE, 6-METHYL-	0,55
22	19,37	2-NONANONE	0,04
23	20,04	ROSEFURAN	0,13
24	21,08	PERILLENE	0,03
25	23,74	alpha-CUBEBENE	0,05
26	24,48	delta-ELEMENE	0,10
27	24,98	CITRONELLAL	0,05
28	25,36	CYCLOSATIVENE	0,28
29	26,10	alpha-COPAENE	0,46
30	26,39	DECANAL	0,15

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GCMS ANALYSIS (cont'd)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - 11063

Peak	RT (min)	COMPOUND name	%
31	27,38	CAMPHOR	0,08
32	27,67	2-NONANOL	0,04
33	29,36	beta1-CUBEBENE	0,05
34	29,83	LINALOOL	0,23
35	30,82	alpha-cis-BERGAMOTENE	0,29
36	32,03	SESQUITERPENE	0,05
37	32,40	BORNYL ACETATE	0,12
38	33,10	alpha-trans-BERGAMOTENE	0,11
39	33,41	<b>beta-ELEMENE</b>	<b>0,77</b>
40	33,54	beta-CARYOPHYLLENE	0,10
41	33,86	TERPINENE-4-OL	0,07
42	34,12	2-UNDECANONE	0,26
43	34,38	GURJUNENE ISOMER	0,19
44	35,42	SESQUITERPENE	0,08
45	36,03	GERMACRENE A	0,04
46	37,42	ALLO-AROMADENDRENE	0,20
47	37,83	ISOBORNEOL	0,29
48	39,19	FARNESENE ISOMER	0,04
49	39,44	CITRONELLYL ACETATE	0,22
50	39,56	E-beta-FARNESENE	0,22
51	40,18	FARNESENE ISOMER	0,49
52	40,55	<b>NERAL</b>	<b>0,16</b>
53	40,98	Z-beta-FARNESENE	0,26
54	41,45	gamma-MUUROLENE	0,07
55	41,75	SESQUITERPENE	0,30
56	42,15	alpha-TERPINEOL	0,17
57	42,45	BORNEOL	0,62
58	42,61	SESQUITERPENE	0,83
59	42,75	SESQUITERPENE	0,11
60	42,97	SESQUITERPENE	0,07

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## GCMS ANALYSIS (cont'd)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - 11063

Peak	RT (min)	COMPOUND name	%
61	43,50	GERMACRENE D	1,00
62	43,51	EREMOPHILENE	0,14
63	44,32	SESQUITERPENE	1,72
64	44,33	SESQUITERPENE	0,73
65	45,87	<b>alpha-ZINGIBERENE</b>	<b>33,31</b>
66	46,21	<b>beta-BISABOLENE</b>	<b>5,80</b>
67	46,22	<b>GERANIAL</b>	<b>0,44</b>
68	46,98	beta-CURCUMENE	0,27
69	47,11	SESQUITERPENE	0,21
70	48,29	<b>E,E-alpha-FARNESENE</b>	<b>4,44</b>
71	48,49	delta-CADINENE	1,10
72		GERANYL ACETATE	
73	50,22	CITRONELLOL	0,05
74	50,21	<b>beta-SESQUIPELLANDRENE</b>	<b>13,16</b>
75	50,38	<b>alpha-CURCUMENE</b>	<b>6,25</b>
76	50,76	CADINA-1,4-DIENE	0,04
77	51,14	COMPOUND Mw=202	0,05
78	51,44	NEROL	0,03
79	52,30	SESQUITERPENE	0,02
80	53,51	GERMACRENE B	0,05
81	54,46	TERPENIC ESTER	0,45
82	54,95	CALAMENENE	0,05
83	54,96	m-CYMENE-8-OL	0,05
84	56,70	CAPROIC ACID	0,05
85	56,91	E-GERANYL ACETONE	0,08
86	56,92	<b>GERANIOL</b>	<b>0,23</b>
87	57,61	DEHYDROCURCUMENE	0,03
88	58,88	Epi-CUBEBOL	0,02
89	59,28	beta-CALACORENE	0,02
90	59,70	CUBEBOL	0,03

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GCMS ANALYSIS (cont'd)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - 11063 11063

Peak	RT (min)	COMPOUND name	%
91	60,91	SESQUITERPENOL	0,03
92	62,10	AROMATIC COMPOUND	0,04
93	63,89	SESQUITERPENOL	0,02
94	64,16	AROMATIC COMPOUND	0,12
95	64,37	SESQUITERPENOL	0,13
96	65,25	NEROLIDOL	0,41
97	65,63	Epi-CUBENOL	0,05
98	65,78	CAPRYLIC ACID	0,03
99	65,89	SESQUITERPENOL	0,05
100	66,15	ELEMOL	0,39
101	66,37	SESQUITERPENOL	0,05
102	66,59	10-epi-gamma-EUDESOL	0,14
103	66,63	SESQUITERPENOL	0,07
104	66,87	beta-SESQUIPELLANDROL	0,34
105	67,25	SESQUITERPENOL	0,05
106	67,32	SESQUITERPENOL	0,03
107	67,43	SESQUITERPENONE	0,07
108	67,52	EUDESOL ISOMER	0,02
109	67,57	beta-COPAEN-4-alpha-OL	0,02
110	67,63	beta-BISABOLOL	0,12
111	67,77	SESQUITERPENOL	0,03
112	67,95	gamma-EUDESOL	0,07
113	68,11	SESQUIPELLANDROL ISOMER	0,23
114	68,27	4-VINYL-GUAIACOL	0,06
115	68,30	alpha-MUUROLOL	0,03
116	68,51	delta-CADINOL	0,03
117	68,57	AROMATIC COMPOUND	0,03
118	68,70	alpha-BISABOLOL	0,03
119	68,78	alpha-EUDESOL	0,03
120	68,89	alpha-CADINOL	0,09

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GCMS ANALYSIS (cont'd)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - 11063

Peak	RT (min)	COMPOUND name	%
121	69,02	beta-EUDESOL	0,33
122	69,12	beta-NOOTKATOL	0,03
123	69,34	SESQUITERPENIC EPOXIDE	0,18
124	69,42	AROMATIC COMPOUND	0,07
125	69,48	SESQUITERPENIC EPOXIDE	0,14
126	69,60	SESQUITERPENIC EPOXIDE	0,15
127	69,76	SESQUITERPENIC EPOXIDE	0,13
128	70,09	GERANYL-p-CYMENE	0,09
129	70,50	ZINGIBERENOL	0,08
130	71,05	SESQUITERPENIC EPOXIDE	0,19
131	71,25	SESQUITERPENIC EPOXIDE	0,02
132	71,41	SESQUITERPENIC EPOXIDE	0,03
133	72,69	SESQUITERPENIC EPOXIDE	0,04
134	76,93	XANTHORRHIZOL	0,02
135	77,70	ZINGIBERONE	0,03
136	81,91	SESQUITERPENIC EPOXIDE	0,02
		<b>TOTAL</b>	<b>100,00</b>

**Nd: Not detected (<33ppm)**

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