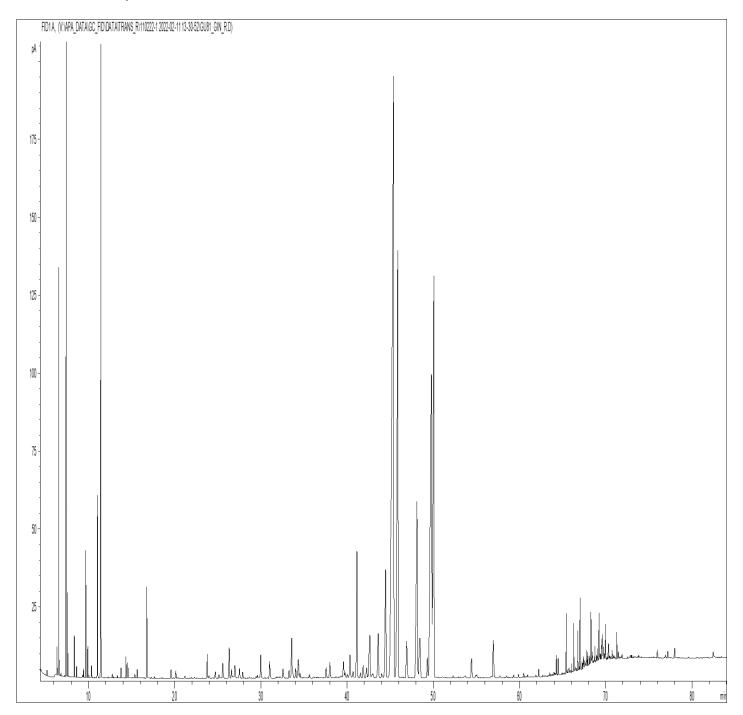


GCMS ANALYSIS

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL - FRESH- 11314

DATE: March 9, 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: GINGER ROOT ESSENTIAL OIL - FRESH- 11314

Peak	RT (min)	Compound name	%
1	5,20	ETHANOL	0,03
2	6,36	TRICYCLENE	0,13
3	6,58	alpha-PINENE	1,91
4	7,44	CAMPHENE	6,13
5	7,60	HEXANAL	0,45
6	8,36	beta-PINENE	0,24
7	8,64	SABINENE	0,06
8	9,43	delta3-CARENE	0,06
9	9,70	beta-MYRCENE	0,79
10	9,92	alpha-PHELLANDRENE	0,20
11	10,34	2-HEPTANONE	0,09
12	11,04	LIMONENE	1,29
13	11,44	1,8-CINEOLE	4,94
14		beta-PHELLANDRENE	
15	12,77	gamma-TERPINENE	0,03
16	13,78	p-CYMENE	0,09
17	14,35	TERPINOLENE	0,18
18	14,56	OCTANAL	0,13
19	15,37	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0,03
20	15,65	2-HEPTANOL	0,08
21	16,76	5-HEPTEN-2-ONE, 6-METHYL-	0,81
22	19,57	2-NONANONE	0,09
23	20,13	ROSEFURAN	0,08
24	21,17	PERILLENE	0,03
25	23,77	5-HEPTEN-2-OL, 6-METHYL-	0,28
26	23,99	alpha-CUBEBENE	0,04
27	24,71	delta-ELEMENE	0,08
28	25,13	SESQUITERPENE	0,04
29	25,57	ISOLEDENE	0,23
30	26,32	alpha-COPAENE	0,41

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL - FRESH- 11314

Peak	RT (min)	Compound name	%
31	26,59	DECANAL	0,13
32	26,99	CAMPHOR	0,23
33	27,51	PENTADECANE	0,14
34	27,90	2-NONANOL	0,08
35	29,44	SESQUITERPENE	0,03
36	29,60	beta1-CUBEBENE	0,04
37	29,98	LINALOOL	0,33
38	31,02	alpha-cis-BERGAMOTENE	0,25
39	32,55	BORNYL ACETATE	0,15
40	32,64	SESQUITERPENE	0,03
41	33,26	alpha-trans-BERGAMOTENE	0,12
42	33,57	beta-ELEMENE	0,67
43	33,66	beta-CARYOPHYLLENE	0,08
44	34,03	TERPINENE-4-OL	0,16
45	34,34	2-UNDECANONE	0,39
46	34,54	ROSEFURAN OXIDE	0,08
47	35,62	CADINA-3,5-DIENE	0,06
48	37,58	GERMACRENE A	0,18
49	38,01	ALLO-AROMADENDRENE	0,29
50	39,27	SESQUITERPENE	0,04
51	39,37	SESQUITERPENE	0,03
52	39,60	FARNESENE ISOMER	0,31
53	39,78	CITRONELLYL ACETATE	0,10
54	40,03	SESQUITERPENE	0,06
55	40,34	E-beta-FARNESENE	0,45
56	40,70	gamma-SELINENE	0,14
57	41,15	NERAL	2,25
58	41,56	gamma-MUUROLENE	0,09
59	41,87	Z-beta-FARNESENE	0,24
60	42,27	gamma-CURCUMENE	0,18

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL - FRESH- 11314

Peak	RT (min)	Compound name	%
61	42,58	alpha-TERPINEOL	0,36
62	42,64	BORNEOL	0,78
63	43,62	GERMACRENE D	0,88
64	44,02	beta-SELINENE	0,09
65	44,48	alpha-MUUROLENE	2,26
66	45,42	SELINENE ISOMER	25,55
67		alpha-ZINGIBERENE	
68	45,89	GERANIAL	9,08
69		beta-BISABOLENE	
70	46,92	beta-CURCUMENE	0,84
71	48,12	E,E-alpha-FARNESENE	4,72
72	7	delta-CADINENE	
73	48,44	GERANYL ACETATE	1,19
74	49,32	CITRONELLOL	0,35
75	49,79	beta-SESQUIPHELLANDRENE	10,44
76	50,08	alpha-CURCUMENE	9,52
77	51,08	MYRTENOL	0,03
78	52,32	NEROL	0,04
79	53,71	GERANYL PROPIONATE	0,04
80	54,45	GERMACRENE B	0,39
81	54,93	AROMATIC COMPOUND	0,05
82	55,06	CALAMENENE	0,06
83	56,74	CAPROIC ACID	0,05
84	56,97	GERANIOL	0,75
85	57,74	E-GERANYL ACETONE	0,04
86	58,49	COMPOUND Mw=216	0,04
87	59,34	DEHYDROCURCUMENE	0,04
88	59,89	Epi-CUBEBOL	0,04
89	60,49	NERYL ISOVALERATE	0,05
90	60,95	alpha-CALACORENE	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL - FRESH- 11314

Peak	RT (min)	Compound name	%
91	61,90	SESQUITERPENIC EPOXIDE	0,03
92	62,25	CUBEBOL	0,07
93	63,50	SESQUITERPENOL	0,03
94	63,99	beta-IONONE	0,03
95	64,11	TERPENIC ESTER	0,03
96	64,29	CARYOPHYLLENE OXIDE	0,16
97	64,49	AROMATIC COMPOUND	0,15
98	65,42	NEROLIDOL	0,39
99	65,59	GERMACRENE D-4-OL	0,03
100	65,69	SESQUITERPENOL	0,03
101	65,76	CAPRYLIC ACID	0,07
102	66,08	GERANYL-alpha-TERPINENE ISOMER	0,06
103	66,30	ELEMOL	0,32
104	66,51	AROMATIC COMPOUND	0,04
105	66,78	10-epi-gamma-EUDESMOL	0,29
106		SESQUITERPENOL	
107	66,96	AROMATIC COMPOUND	0,03
108	67,03	beta-SESQUIPHELLANDROL	0,45
109	67,27	ETHYL E-CINNAMATE	0,06
110	67,41	SESQUITERPENOL	0,08
111	67,47	SESQUITERPENOL	0,06
112	67,59	SESQUITERPENONE	0,06
113	67,75	beta-COPAEN-4-alpha-OL	0,03
114	67,80	EUGENOL	0,10
115	67,82	MINT SULFIDE	0,03
116	67,92	beta-BISABOLOL	0,11
117	68,12	gamma-EUDESMOL	0,09
118	68,25	AROMATIC COMPOUND	0,04
119	68,30	SESQUIPHELLANDROL ISOMER	0,40
120	68,45	alpha-MUUROLOL	0,12

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL - FRESH- 11314

Peak	RT (min)	Compound name	%
121	68,76	AROMATIC COMPOUND	0,12
122	68,94	alpha-BISABOLOL	0,04
123	68,98	SESQUITERPENOL	0,04
124	69,09	alpha-EUDESMOL	0,10
125	69,24	beta-EUDESMOL	0,39
126	69,31	SESQUITERPENIC EPOXIDE	0,07
127	69,43	beta-TUMERONE Mw=218 (CURLONE)	0,06
128	69,56	AROMATIC COMPOUND	0,16
129	69,62	Ar-TURMERONE	0,25
130	69,72	GERANYL-p-CYMENE ISOMER	0,08
131	69,84	SESQUITERPENIC EPOXIDE	0,05
132	69,92	ZINGIBERENONE	0,04
133	69,98	AROMATIC COMPOUND	0,23
134	70,30	SESQUITERPENONE	0,05
135	70,34	GERANYL-p-CYMENE ISOMER	0,13
136	70,47	SESQUITERPENIC EPOXIDE	0,05
137	70,75	NERIC ACID	0,07
138	70,95	ISOEUGENOL	0,03
139	71,29	ZINGIBERENOL	0,20
140	71,49	AROMATIC COMPOUND	0,06
141	71,90	SESQUITERPENIC EPOXIDE	0,03
142	76,00	ETHYL p-METHOXYCINNAMATE ISOMER	0,08
143	77,21	XANTHORRHIZOL	0,07
144	78,01	ACORENONE	0,10
145	82,48	ZINGIBEROL	0,09
		TOTAL	99,88

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