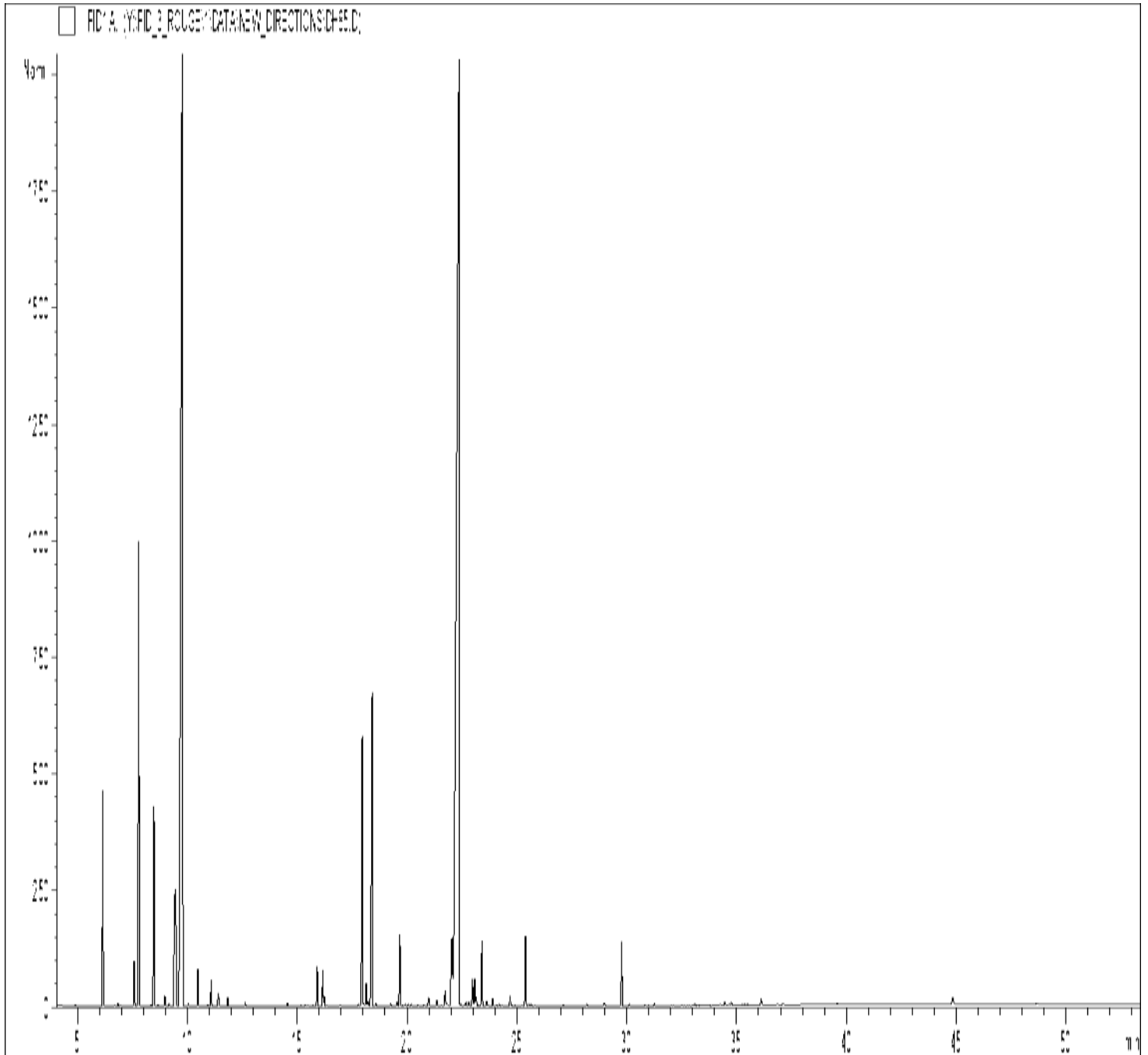


GCMS ANALYSIS

PRODUCT NAME: CARDAMOM ORGANIC ESSENTIAL OIL - 50003

DATE: December 03, 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: CARDAMOM ORGANIC ESSENTIAL OIL - 50003

Peak	RT (min)	Compound	%
1	4,25	ACETONE	0,01
2	4,86	2-METHYL BUTANAL	0,01
3	4,89	ISOVALERALDEHYDE	0,01
4	6,10	alpha-PINENE	1,91
5	6,14	alpha-THUYENE	0,30
6	6,69	alpha-FENCHENE	0,01
7	6,84	CAMPHENE	0,03
8	6,95	HEXANAL	0,01
9	7,57	beta-PINENE	0,54
10	7,78	SABINENE	5,43
11	8,32	delta3-CARENE	0,01
12	8,47	beta-MYRCENE	2,22
13	8,66	alpha-PHELLANDRENE	0,02
14	8,98	alpha-TERPINENE	0,13
15	9,16	2,3-DEHYDRO-1,8-CINEOLE	0,03
16	9,45	LIMONENE	3,04
17	9,78	1,8-CINEOLE	29,28
18	10,05	cis-beta-OCIMENE	0,03
19	10,48	gamma-TERPINENE	0,25
20	10,50	trans-beta-OCIMENE	0,10
21	10,93	HEXYL ACETATE	0,01
22	11,09	p-CYMENE	0,26
23	11,39	TERPINOLENE	0,14
24	11,44	OCTANAL	0,08
25	11,84	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0,09
26	12,63	5-HEPTEN-2-ONE, 6-METHYL-	0,04
27	14,56	EPOXYALIPHATIC COMPOUND	0,03
28	14,82	PERILLENE	0,01
29	15,17	alpha-p-DIMETHYLSTYRENE	0,01
30	15,38	LINALOOL cis-OXIDE	0,02

Disclaimer & Caution:

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CARDAMOM ORGANIC ESSENTIAL OIL - 50003

Peak	RT (min)	Compound	%
31	15,49	LIMONENE cis-EPOXIDE	0,01
32	15,70	ACETIC ACID	0,01
33	15,91	trans-THUYANOL	0,45
34	16,03	epoxy-4,8-TERPINOLENE	0,01
35	16,16	TERPENIC COMPOUND	0,41
36	16,23	OCTYL ACETATE	0,11
37	16,35	delta-ELEMENE	0,01
38	16,69	YLANGENE	0,01
39	16,96	DECANAL	0,03
40	17,79	E-SOLANONE	0,04
41	17,96	LINALOOL	3,59
42	18,02	cis-4-DECENAL	0,04
43	18,14	cis-THUYANOL	0,28
44	18,22	1-OCTANOL	0,07
45	18,42	LINALYL ACETATE	5,02
46	18,58	trans-p-MENTH-2-EN-1-OL	0,05
47	19,25	BORNYL ACETATE	0,04
48	19,54	beta-ELEMENE	0,06
49	19,67	TERPINENE-4-OL	0,85
50	19,78	2-UNDECANONE	0,01
51	19,91	beta-CARYOPHYLLENE	0,03
52	20,05	beta-TERPENYL ACETATE	0,03
53	20,20	cis-p-MENTH-2-EN-1-OL	0,02
54	20,50	SESQUITERPENE	0,03
55	20,78	GERMACRENE A	0,03
56	20,98	delta-TERPENYL ACETATE	0,13
57	21,15	cis-VERBENOL	0,02
58	21,35	delta-TERPINEOL	0,07
59	21,56	cis-PIPERITOL	0,02
60	21,73	NERAL	0,22

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CARDAMOM ORGANIC ESSENTIAL OIL - 50003

Peak	RT (min)	Compound	%
61	21,80	TERPENIC COMPOUND	0,05
62	22,03	alpha-TERPINEOL	1,52
63	22,36	TERPENYL ACETATE	38,16
64	22,45	METHYL 2-DECENOATE	0,03
65	22,67	GERMACRENE D	0,05
66	22,80	GERANIAL	0,07
67	22,97	beta-SELINENE	0,34
68	23,07	NERYL ACETATE	0,33
69	23,14	alpha-SELINENE	0,11
70	23,40	GERANYL ACETATE	0,80
71	23,61	TERPENIC ESTER	0,06
72	23,67	delta-CADINENE	0,01
73	23,89	gamma-CADINENE	0,09
74	24,07	7-epi-alpha-SELINENE	0,02
75	24,19	MENTHADIENOL ISOMERE	0,03
76	24,33	4-DECEN-1-OL	0,02
77	24,69	TERPENIC ESTER	0,13
78	24,76	GERANYL PROPIONATE	0,02
79	24,89	ALIPHATIC ESTER	0,01
80	25,24	trans-CARVEOL	0,02
81	25,39	GERANIOL	0,85
82	25,55	GERMACRENE B	0,02
83	25,66	E-GERANYL ACETONE	0,02
84	25,81	5-DODECEN-1-OL ACETATE	0,02
85	27,11	COMPOUND Mw=152	0,02
86	28,18	SESQUITERPENIC EPOXIDE	0,02
87	28,97	ALIPHATIC ALCOHOL	0,06
88	29,76	NEROLIDOL	0,78
89	30,12	CAPRYLIC ACID	0,03
90	30,84	KETONIC COMPOUND	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CARDAMOM ORGANIC ESSENTIAL OIL - 50003

Peak	RT (min)	Compound	%
91	31,25	CYCLOHEX-2-ENOL, 1-METHYL-4-ACETOXY-1-METHYLETHYL-	0,03
92	33,09	METHYL ACETOXYMETHYLCYCLOHEXENOL ISOMER	0,02
93	34,45	FARNESYL ACETATE	0,05
94	34,67	SESQUITERPENOL	0,02
95	34,76	CARVONE ACETONE Mw=210	0,05
96	35,36	COMPOUND Mw=152	0,02
97	36,12	FARNESOL	0,10
98	37,12	SESQUITERPENONE	0,04
99	39,58	COMPOUND Mw=152	0,02
100	44,85	AROMATIC COMPOUND Mw=284	0,13
		TOTAL	99,95

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