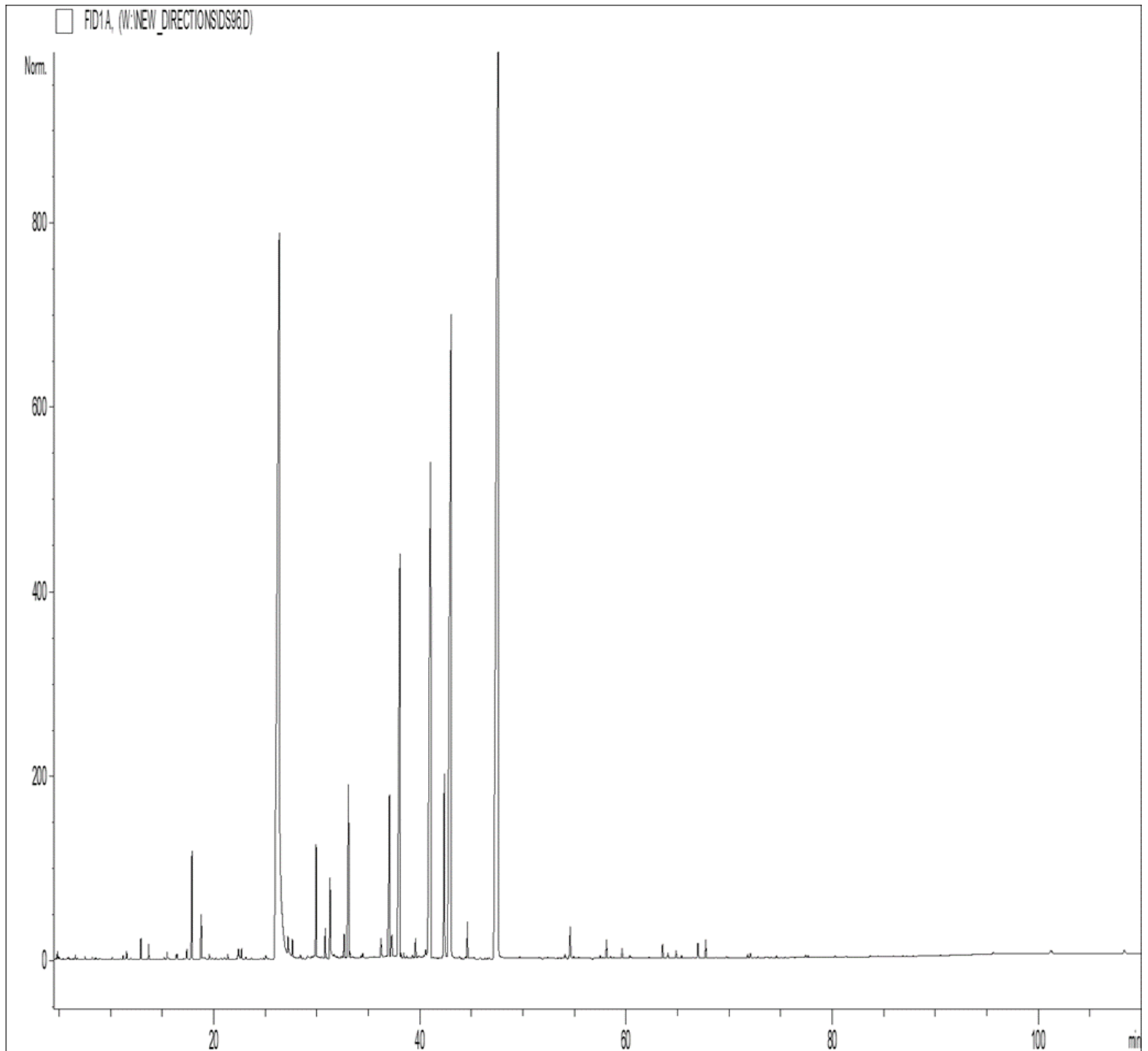




GCMS ANALYSIS

PRODUCT NAME: CITRONELLA ORGANIC ESSENTIAL OIL - 50037

DATE: February 03, 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: CITRONELLA ORGANIC ESSENTIAL OIL - 50037

Peak	RT (min)	COMPONENT name	%
1	4,82	CYCLOPENTANE, 1-METHYL-1-METHYLETHYL	0,03
2	5,89	TRICYCLENE	0,01
3	6,55	alpha-PINENE	0,02
4	7,50	CAMPHENE	0,01
5	8,21	beta-PINENE	0,01
6	10,14	beta-MYRCENE	0,01
7	11,22	1,8-CINEOLE, 2,3-DEHYDRO-	0,02
8	11,57	LIMONENE	0,05
9	12,94	cis-beta-OCIMENE	0,13
10	13,70	trans-beta-OCIMENE	0,09
11	15,21	TERPINOLENE	0,01
12	15,48	OCTANAL	0,05
13	16,37	COMPOUND Mw=140	0,03
14	16,46	COMPOUND Mw=140	0,03
15	17,40	4-NONANONE	0,08
16	17,89	5-HEPTEN-2-ONE, 6-METHYL-	0,82
17	18,79	ROSE cis-OXIDE	0,35
18		ALIPHATIC ESTER	
19	19,59	ROSE trans-OXIDE	0,04
20	21,04	NONANAL	0,01
21	21,37	ROSEFURAN	0,04
22	22,40	PHOTOCITRAL ISOMER	0,16
23		cis-p-MENTHANE-8-OL	
24	22,72	trans-p-MENTHANE-8-OL	0,09
25	23,13	KETONE COMPOUND Mw=152	0,01
26	25,07	MENTHONE	0,04
27	26,30	ISOGERANIAL	0,08
28	26,36	CITRONELLAL	25,05
29	27,22	DECANAL	0,21
30	27,64	ISONERAL	0,15

Disclaimer & Caution

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CITRONELLA ORGANIC ESSENTIAL OIL - 50037

Peak	RT (min)	COMPONENT name	%
31	28,43	beta-BOURBONENE	0,05
32	29,13	cis-4-DECENAL	0,06
33	29,53	SESQUITERPENE	0,04
34	29,69	PHOTOCITRAL A	0,19
35	29,95	LINALOOL	0,96
36	30,48	1-OCTANOL	0,04
37	30,83	NEOISOPULEGOL	0,30
38	31,31	ISOPULEGOL	0,99
39		PHOTOCITRAL B	
40	31,71	SESQUITERPENE	0,03
41	32,43	alpha-trans-BERGAMOTENE	0,03
42	32,66	beta-ELEMENE	0,29
43	33,10	beta-CARYOPHYLLENE	2,39
44	33,22	COMPOUND Mw=166	0,06
45	33,36	SESQUITERPENE	0,01
46	33,48	TERPENIC ESTER	0,02
47	34,34	ISOPULEGOL ISOMER	0,02
48	34,46	CITRONELLYL FORMIATE	0,04
49	35,07	CADINA-3,5-DIENE	0,01
50	35,53	GERMACRENE A	0,01
51	36,22	MELONOL	0,22
52	36,72	ZONARENE	0,01
53	37,03	CITRONELLYL ACETATE	2,10
54	37,25	alpha-HUMULENE	0,31
55	37,41	SESQUITERPENE	0,01
56	37,62	SESQUITERPENE	0,01
57	38,05	NERAL	7,67
58	38,16	cis-PIPERITOL	0,05
59	38,44	gamma-MUUROLENE	0,04
60	38,71	alpha-TERPINEOL	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CITRONELLA ORGANIC ESSENTIAL OIL - 50037

Peak	RT (min)	COMPONENT name	%
61	38,75	BORNEOL	0,01
62	39,28	GERANYL FORMIATE	0,04
63	39,57	GERMACRENE D	0,22
64	39,87	SESQUITERPENE	0,03
65	40,08	PIPERITONE	0,01
66	40,35	alpha-SELINENE	0,02
67	40,55	alpha-MUUROLENE	0,07
68	41,03	GERANIAL	10,08
69	41,23	trans-ISOPIPERITENOL	0,03
70	42,36	GERANYL ACETATE	2,32
71		delta-CADINENE	
72	42,42	gamma-CADINENE	0,13
73	42,99	CITRONELLOL	13,52
74	43,84	gamma-GERANIOL	0,02
75	44,44	alpha-AMORPHENE	0,03
76	44,60	NEROL	0,34
77	45,25	cis-ISOGERANIOL	0,01
78	47,58	GERANIOL	27,53
79	48,03	E-GERANYL ACETONE	0,02
80	49,67	Epi-CUBEBOL	0,02
81	51,55	ALIPHATIC ALCOHOL	0,01
82	52,40	CUBEBOL	0,03
83	54,09	ISOCARYOPHYLLENE EPOXIDE	0,05
84	54,57	CARYOPHYLLENE EPOXIDE	0,39
85	54,90	SESQUITERPENIC EPOXIDE	0,03
86	55,40	AROMATIC COMPOUND	0,02
87	57,48	EPOXY-6,7-HUMULENE	0,04
88	58,11	GERMACRENE D-4-OL	0,19
89	58,48	Epi-CUBENOL	0,03
90	58,83	PRECOCENE I	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CITRONELLA ORGANIC ESSENTIAL OIL - 50037

Peak	RT (min)	COMPONENT name	%
91	59,61	ELEMOL	0,11
92	60,38	SESQUITERPENIC EPOXIDE	0,03
93	60,50	SESQUITERPENOL	0,02
94	62,21	SESQUITERPENOL	0,01
95	63,54	EUGENOL	0,14
96	64,06	T-CADINOL	0,06
97	-	METHYLISOEUGENOL	Nd
98	64,85	alpha-MUUROLOL	0,08
99	65,40	delta-CADINOL	0,02
100	66,97	alpha-CADINOL	0,16
101	67,72	CITRONELIC ACID	0,18
102	68,73	FARNESAL	0,01
103	69,72	ALIPHATIC ESTER	0,02
104	69,97	ALIPHATIC ESTER	0,01
105	71,81	ISOEUGENOL	0,04
106	72,06	GERANIC ACID	0,05
107	72,77	SESQUITERPENIC EPOXIDE	0,01
108	73,64	COMPOUND Mw=290	0,02
109	73,71	COMPOUND Mw=238	0,01
110	74,60	SESQUITERPENIC EPOXIDE	0,02
111	77,41	GERANYLGERANIOL ISOMER	0,03
112	77,66	SESQUITERPENIC EPOXIDE	0,02
113	80,27	CITRONELIC ESTER	0,01
114	83,68	KETONE COMPOUND Mw=288	0,01
115	95,65	CITRONELIC ESTER	0,02
116	101,23	GERANYLGERANIOL ISOMER	0,05
117	108,38	GERANYLGERANIOL ISOMER	0,05
		TOTAL	100,00

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