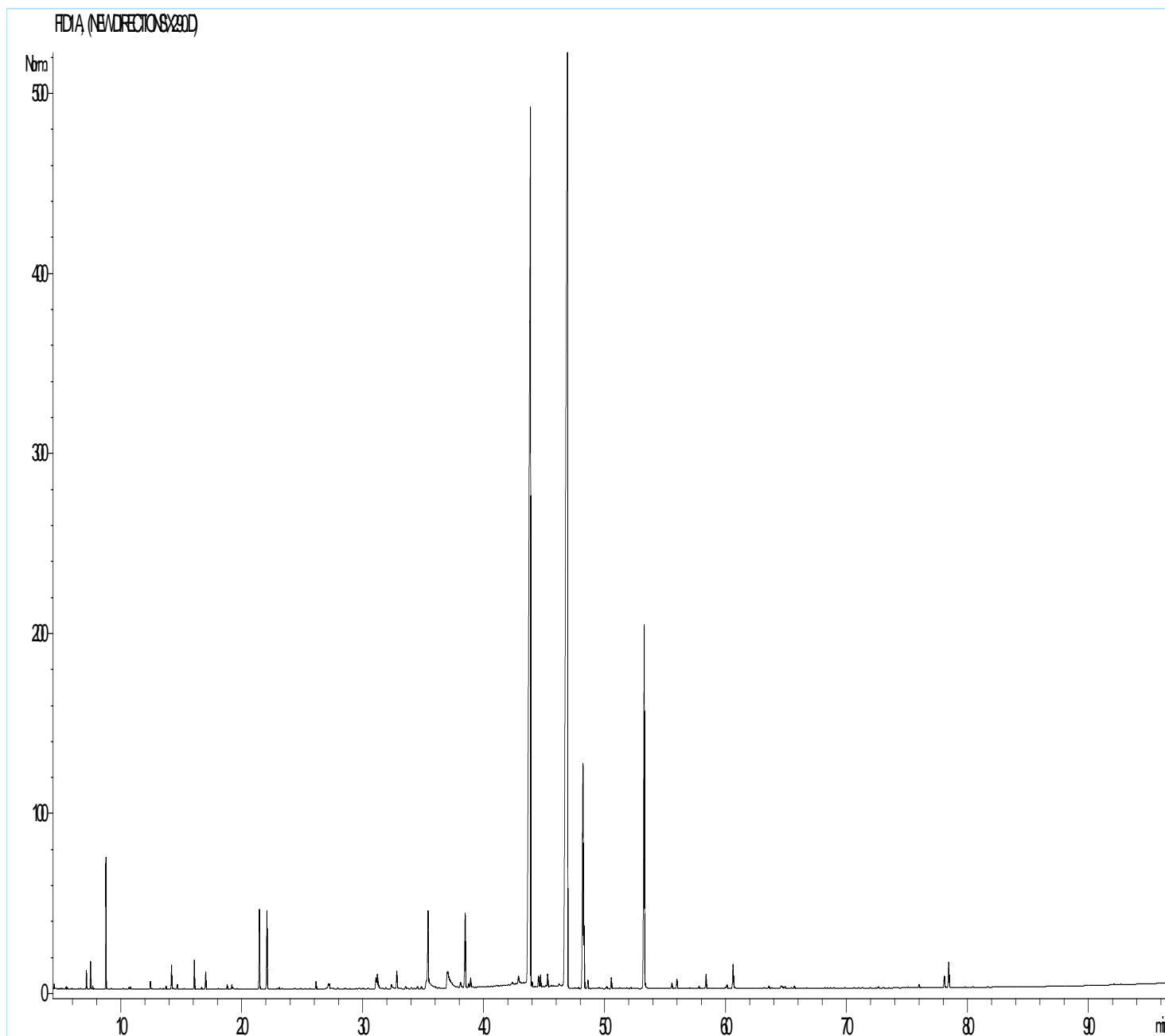


GCMS ANALYSIS

PRODUCT NAME: LEMONGRASS ORGANIC ESSENTIAL OIL - 50032

DATE: May 8, 2019



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: LEMONGRASS ORGANIC ESSENTIAL OIL - 50032

Peak	RT (min)	Compound name	%
1	5,0	ACETONE	0,01
2	5,4	BUTANAL,2-METHYL	0,01
3	5,5	ISOVALERALDEHYDE	0,01
4	5,6	ETHYL ALCOHOL	0,01
5	6,7	BORNYLENE	0,01
6	7,1	TRICYCLENE	0,14
7	7,4	alpha-PINENE	0,21
8	7,5	alpha-THUYENE	0,02
9	7,7	COMPONENT Mw=124	0,02
10	8,8	CAMPHENE	1,21
11	9,2	HEXANAL	0,01
12	10,2	beta-PINENE	0,01
13	10,7	SABINENE	0,01
14	10,8	4-HEPTANONE	0,02
15	12,5	beta-MYRCENE	0,08
16	12,6	alpha-PHELLANDRENE	0,01
17	13,3	alpha-TERPINENE	0,01
18	13,8	2,3-DEHYDRO-1,8-CINEOL	0,04
19	14,2	LIMONENE	0,28
20	14,4	1,8-CINEOLE	0,01
21	14,7	beta-PHELLANDRENE	0,06
22	16,1	Cis-beta-OCIMENE	0,36
23	16,7	gamma-TERPINENE	0,02
24	17,0	Trans-beta-OCIMENE	0,22
25	18,1	p-CYMENE	0,01
26	18,8	TERPINOLENE	0,06
27	19,2	OCTANAL	0,06
28	21,5	4-NONANONE	1,14
29	22,1	5-HEPTEN-2-ONE-6-METHYL	1,13
30	23,1	5-HEPTENAL-2,6-DIMETHYL	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LEMONGRASS ORGANIC ESSENTIAL OIL - 50032

Peak	RT (min)	Compound name	%
31	23,3	PINENE EPOXIDE	0,01
32	24,4	ALLO-OCIMENE	0,01
33	24,9	3-HEXEN-1-OL	0,01
34	26,2	ANISALDEHYDE TRIMETHYL	0,11
35	27,0	SESQUITERPENE	0,01
36	27,2	PERILLENE	0,08
37	27,3	COMPONENT Mw=152	0,08
38	28,0	FENCHONE	0,02
39	28,6	LINALOOL-Cis-OXIDE	0,01
40	29,4	alpha-CUBEBENE	0,01
41	29,8	Cis-3-HEXENYL METHYLBUTYRATE	0,02
42	30,0	6-HEPTEN-1-OL, 2-METHYL	0,01
43	30,4	LINALOOL trans-OXIDE	0,01
44	31,0	CYCLOSATIVENE	0,09
45	31,1	ISOLEDENE	0,09
46	31,2	ISOGERANIAL	0,12
47	31,3	CITRONELLAL	0,19
48	31,4	4-NONANOL	0,05
49	31,9	alpha-COPAENE	0,02
50	32,4	DECANAL	0,08
51	32,8	ISONERAL	0,28
52	33,6	beta-BOURBONENE	0,04
53	34,0	SATIVENE	0,02
54	34,5	4-UNDECANONE	0,04
55	34,9	Beta1-CUBEBENE	0,03
56	35,1	EPIPHOTOCITRAL A	0,81
57	35,4	LINALOOL	1,11
58	37,0	EPIPHOTOCITRAL B + epsilon-CADINENE	1,21
59	38,1	beta-ELEMENE	0,12
60	38,5	beta-CARYOPHYLLENE	1,37

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LEMONGRASS ORGANIC ESSENTIAL OIL - 50032

Peak	RT (min)	Compound name	%
61	38,7	TERPINENE-4-OL	0,07
62	38,9	COMPONENT Mw=166	0,15
63	42,4	ZONARENE	0,05
64	42,9	alpha-HUMULENE	0,16
65	43,0	Cis-4,5-MUROLADIENE	0,04
66	43,9	NERAL	31,41
67	44,0	gamma-MUROLENE	0,06
68	44,2	METHYL GERANATE	0,02
69	44,5	alpha-TERPINEOL	0,18
70	44,7	BORNEOL	0,20
71	45,2	CUBENENE ISOMER	0,02
72	45,3	GERMACRENE D	0,21
73	45,6	SESQUITERPENE	0,03
74	45,8	PIPERITONE	0,03
75	46,2	BICYCLOGERMACRENE	0,08
76	46,9	GERANIAL	40,99
77	47,5	Cis-ISOPIPERITENOL	0,02
79	47,8	Trans-ISOPIPERITENOL	0,02
79	48,2	GERANYL ACETATE	4,40
80	48,3	delta-CADINENE + gamma-CADINENE	0,88
81	48,6	CITRONELLOL	0,15
82	49,5	SESQUITERPENE	0,02
83	49,6	CADINA-1,4-DIENE	0,02
84	49,8	MENTHADIENOL ISOMER	0,01
85	50,2	alpha-AMORPHENE	0,03
86	50,5	NEROL	0,18
87	51,0	ISOGERANIOL	0,01
88	51,2	CUPARENE	0,01
89	51,8	ISOPIPERITENONE	0,02
90	52,2	GERMACRENE B	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LEMONGRASS ORGANIC ESSENTIAL OIL - 50032

Peak	RT (min)	Compound name	%
91	53,3	GERANIOL	6,87
92	55,6	Epi-CUBEBOL	0,10
93	56,0	GERANYL BUTYRATE	0,16
94	57,0	Alpha-CALACORENE	0,01
95	57,8	PHYTADIENE COMPONENT	0,04
96	58,4	CUBEBOL	0,24
97	60,0	SESQUITERPENOL	0,03
98	60,1	ISOCARYOPHYLLENE EPOXIDE	0,06
99	60,6	CARYOPHYLLENE EPOXIDE	0,48
100	63,2	SESQUITERPENOL	0,02
101	63,6	EPOXY-6,7-HUMULENE	0,04
102	63,8	NEROLIDOL	0,01
103	64,6	Epi-CUBENOL	0,06
104	64,7	COMPONENT Mw=150	0,02
105	64,9	CUBENOL	0,04
106	65,4	CAPRYLIC ACID	0,01
107	65,7	ELEMOL	0,05
108	66,3	GERANIC ESTER	0,01
109	68,2	PENTADECANONE, TRIMETHYL	0,01
110	68,7	SESQUITERPENOL	0,01
111	68,9	SESQUITERPENIC EPOXIDE	0,02
112	69,9	EUGENOL	0,01
113	70,2	T-CADINOL	0,01
114	71,0	Alpha-MUUROLOL	0,01
115	71,3	4-VINYL QUAJACOL	0,01
116	72,6	HIMACHALOL ISOMER	0,02
117	75,1	FARNESAL	0,02
118	76,0	NERIC ACID	0,07
119	78,1	GERANIC ACID	0,22
120	78,4	ISOEUGENOL	0,47

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LEMONGRASS ORGANIC ESSENTIAL OIL - 50032

Peak	RT (min)	Compound name	%
121	79,8	AROMATIC COMPONENT	0,01
122	92,1	AROMATIC COMPONENT	0,03
		TOTAL	99,93

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