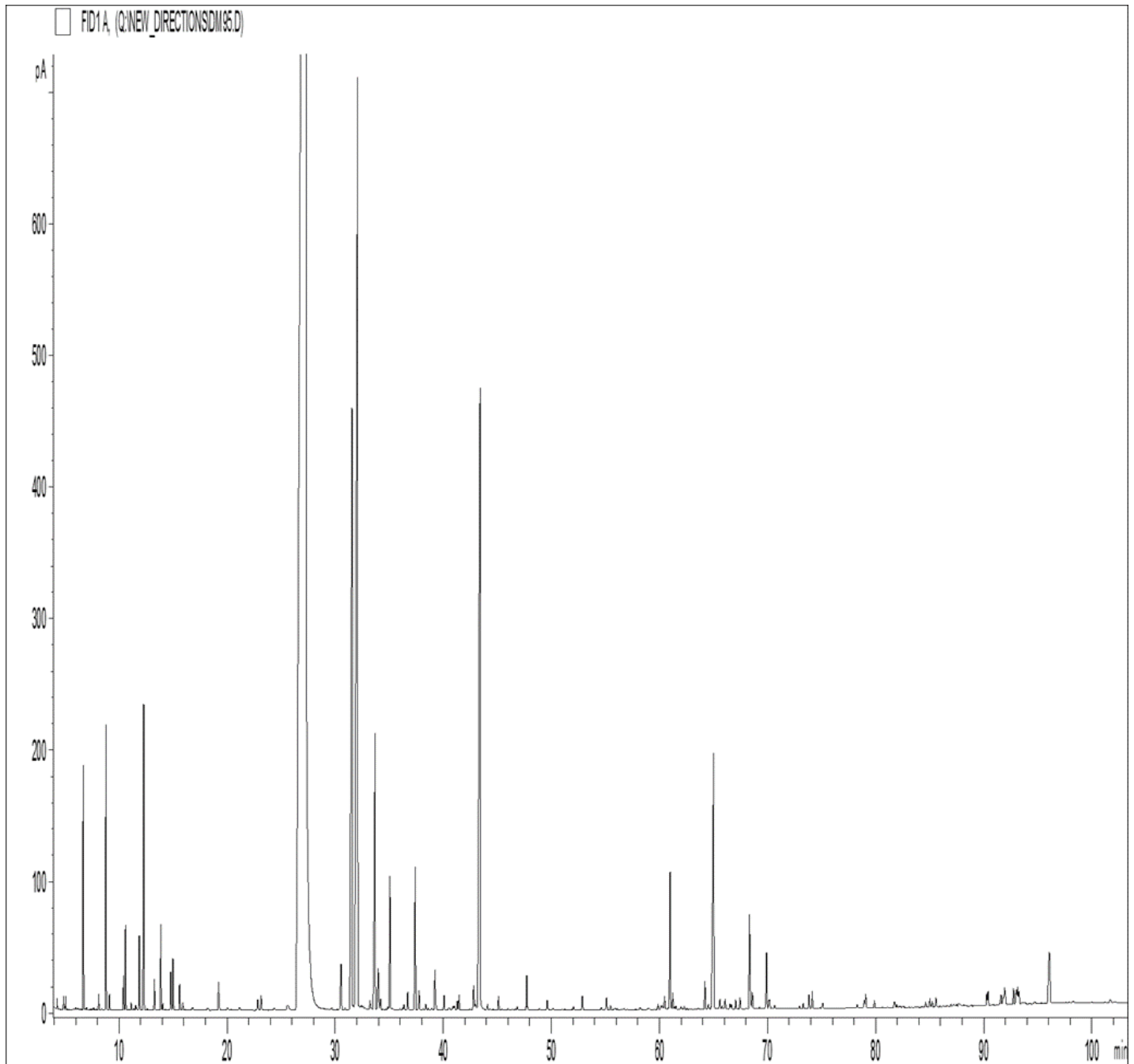


GCMS ANALYSIS

PRODUCT NAME: EUCALYPTUS ORGANIC ESSENTIAL OIL (LEMON) – 50008

DATE: June 23, 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: EUCALYPTUS ORGANIC ESSENTIAL OIL (LEMON) – 50008

Peak	RT (min)	Component name	%
1	4.26	ACETONE	0.01
2	4.88	CYCLOPENTANE METHYL ISOMER	0.04
3	5.07	CYCLOPENTANE METHYL ISOMER	0.03
4	6.69	alpha-PINENE	0.64
5	6.70	alpha-THUYENE	0.04
6	8.13	ISOBUTYL ISOBUTYRATE	0.05
7	8.79	beta-PINENE	0.93
8	9.12	SABINENE	0.05
9	10.41	beta-MYRCENE	0.12
10	10.60	alpha-PHELLANDRENE	0.30
11	11.13	alpha-TERPINENE	0.03
12	11.54	ISOBUTYL ISOVALERATE	0.02
13	11.63	ISOAMYL ISOBUTYRATE	0.01
14	11.88	LIMONENE	0.29
15	12.29	1,8-CINEOLE	1.22
16		beta-PHELLANDRENE	
17	13.28	Cis-beta-OCIMENE	0.12
18	13.87	gamma-TERPINENE	0.34
19	14.06	Trans-beta-OCIMENE	0.03
20	14.79	3,8-p-MENTHADIENE	0.16
21	14.99	p-CYMENE	0.20
22	15.61	TERPINOLENE	0.11
23	15.91	TERPINOLENE ISOMER	0.03
24	19.22	ROSE cis-OXIDE	0.15
25		HEXENYLIC ESTER	
26	20.02	ROSE trans-OXIDE	0.02
27	21.13	AROMATIC COMPOUND	0.02
28	22.83	Cis-p-MENTHANE-8-OL	0.06
29	23.14	Trans-p-MENTHANE-8-OL	0.08
30	24.34	LINALOOL trans-OXIDE	0.02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS ORGANIC ESSENTIAL OIL (LEMON) – 50008

Peak	RT (min)	Component name	%
31	25.62	ISOMENTHONE	0.07
32	27.29	CITRONELLAL	65.53
33	30.53	LINALOOL	0.27
34	31.55	NEOISOPULEGOL	4.28
35	32.07	ISOPULEGOL	8.63
36	32.32	SESQUITERPENE	0.02
37	32.41	SESQUITERPENE	0.03
38	32.59	FENCHOL	0.02
39	33.21	beta-ELEMENE	0.05
40	33.68	beta-CARYOPHYLLENE	1.65
41	33.96	ISOPULEGOL ISOMER	0.18
42	33.97	TERPINENE-4-OL	0.06
43	34.19	AROMADENDRENE	0.13
44	34.88	ALIPHATIC ESTER	0.01
45	35.05	ISOISOPULEGOL	0.63
46	36.36	ALLO-AROMADENDRENE	0.03
47	36.71	MELONOL	0.08
48	37.40	CITRONELLYL ACETATE	0.69
49	37.75	alpha-HUMULENE	0.10
50	38.38	NERAL	0.03
51	38.92	BORNEOL	0.01
52	39.22	alpha-TERPINEOL	0.18
53	39.23	TERPENYL ACETATE	0.02
54	40.07	GERMACRENE D	0.07
55	40.52	SESQUITERPENE	0.01
56	40.91	alpha-SELINENE	0.02
57	41.04	SESQUITERPENE	0.03
58	41.31	GERANIAL	0.04
59	41.48	BICYCLOGERMACRENE	0.07
60	42.81	GERANYL ACETATE	0.14

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS ORGANIC ESSENTIAL OIL (LEMON) – 50008

Peak	RT (min)	Component name	%
61	42.97	delta-CADINENE	0.05
62	43.41	CITRONELLOL	4.82
63	44.11	2-PHENYLMETHYL ISOBUTYRATE	0.03
64	45.12	NEROL	0.06
65	46.87	GERMACRENE B	0.02
66	47.73	GERANIOL	0.16
67	49.62	2-PHENYLETHYL ISOBUTYRATE	0.04
68	52.06	SESQUITERPENE	0.02
69	52.87	trans-JASMONE	0.07
70	54.63	ISOCARYOPHYLLENE OXIDE	0.02
71	55.11	CARYOPHYLLENE OXIDE	0.06
72	55.48	ALIPHATIC ALCOHOL	0.02
73	55.92	PHENYLETHYLIC ESTER	0.01
74	58.21	cis-NEROLIDOL	0.02
75	58.95	GLEENOL	0.01
76	59.88	SESQUITERPENOL	0.03
77	60.14	SESQUITERPENOL	0.02
78	60.25	SESQUITERPENOL	0.03
79	60.48	GLOBULOL	0.08
80	60.99	GERANYLCITRONELLAL ISOMER	0.68
81	61.24	GERANYLCITRONELLAL ISOMER	0.08
82	61.38	GERANYLCITRONELLAL ISOMER	0.02
83	61.53	GERANYLCITRONELLAL ISOMER	0.02
84	62.01	SPATHULENOL	0.02
85	62.31	COMPOUND Mw=290	0.02
86	64.21	EUGENOL	0.14
87	64.53	gamma-EUDESOL	0.03
88	65.00	4-VINYL-GUAIACOL	0.05
89	65.01	CITRONELLYL CITRONELLATE	1.75
90	65.60	AROMATIC COMPOUND	0.06

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS ORGANIC ESSENTIAL OIL (LEMON) – 50008

Peak	RT (min)	Component name	%
91	65.82	CITRONELLYL CITRONELLATE ISOMER	0.02
92	66.09	CITRONELLYL CITRONELLATE ISOMER	0.06
93	66.54	CITRONELLYL CITRONELLATE ISOMER	0.03
94	66.66	CITRONELLYL CITRONELLATE ISOMER	0.02
95	67.06	alpha-EUDESOL	0.04
96	67.46	beta-EUDESOL	0.06
97	68.34	CITRONELIC ACID	0.53
98	68.61	GERANYLCITRONELLAL ISOMER	0.08
99	69.25	GERANYLCITRONELLAL ISOMER	0.01
100	69.92	GERANYLCITRONELLAL ISOMER	0.32
101	70.12	SESQUITERPENOL	0.04
102	70.18	SESQUITERPENOL	0.05
103	70.67	CITRONELLYL CITRONELLATE ISOMER	0.02
104	72.95	SESQUITERPENOL	0.02
105	73.31	GERANYLCITRONELLAL ISOMER	0.03
106	73.85	DIETHYL PHTHALATE	0.07
107	74.14	GERANYLGERANIOL	0.08
108	75.11	CITRONELLYL CITRONELLATE ISOMER	0.03
109	78.31	CITRONELLYL CITRONELLATE ISOMER	0.02
110	78.95	CITRONELLYL CITRONELLATE ISOMER	0.04
111	79.09	CITRONELLYL CITRONELLATE ISOMER	0.08
112	79.89	CITRONELLYL CITRONELLATE ISOMER	0.04
113	81.74	CITRONELLYL CITRONELLATE ISOMER	0.05
114	81.96	CITRONELLYL CITRONELLATE ISOMER	0.02
115	84.64	CITRONELLYL CITRONELLATE ISOMER	0.03
116	85.03	CITRONELIC ESTER	0.05
117	85.25	CITRONELIC ESTER	0.03
118	85.59	CITRONELIC ESTER	0.05
119	87.23	CITRONELIC ESTER	0.02
120	87.67	CITRONELIC ESTER	0.02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS ORGANIC ESSENTIAL OIL (LEMON) – 50008

Peak	RT (min)	Component name	%
121	87.76	CITRONELIC ESTER	0.03
122	90.30	SESQUITERPNIC EPOXIDE	0.06
123	90.42	SESQUITERPNIC EPOXIDE	0.07
124	91.61	CITRONELIC ESTER	0.07
125	91.84	CITRONELIC ESTER	0.04
126	91.95	CITRONELIC ESTER	0.10
127	92.04	CITRONELIC ESTER	0.02
128	92.76	CITRONELIC ESTER	0.09
129	93.01	CITRONELIC ESTER	0.09
130	93.14	CITRONELIC ESTER	0.09
131	93.28	CITRONELIC ESTER	0.09
132	93.73	CITRONELIC ESTER	0.03
133	94.71	CITRONELIC ESTER	0.02
134	96.07	CITRONELIC ESTER	0.53
135	98.27	CITRONELIC ESTER	0.02
136	101.69	CITRONELIC ESTER	0.03
137	102.20	CITRONELIC ESTER	0.02
		TOTAL	99.99

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