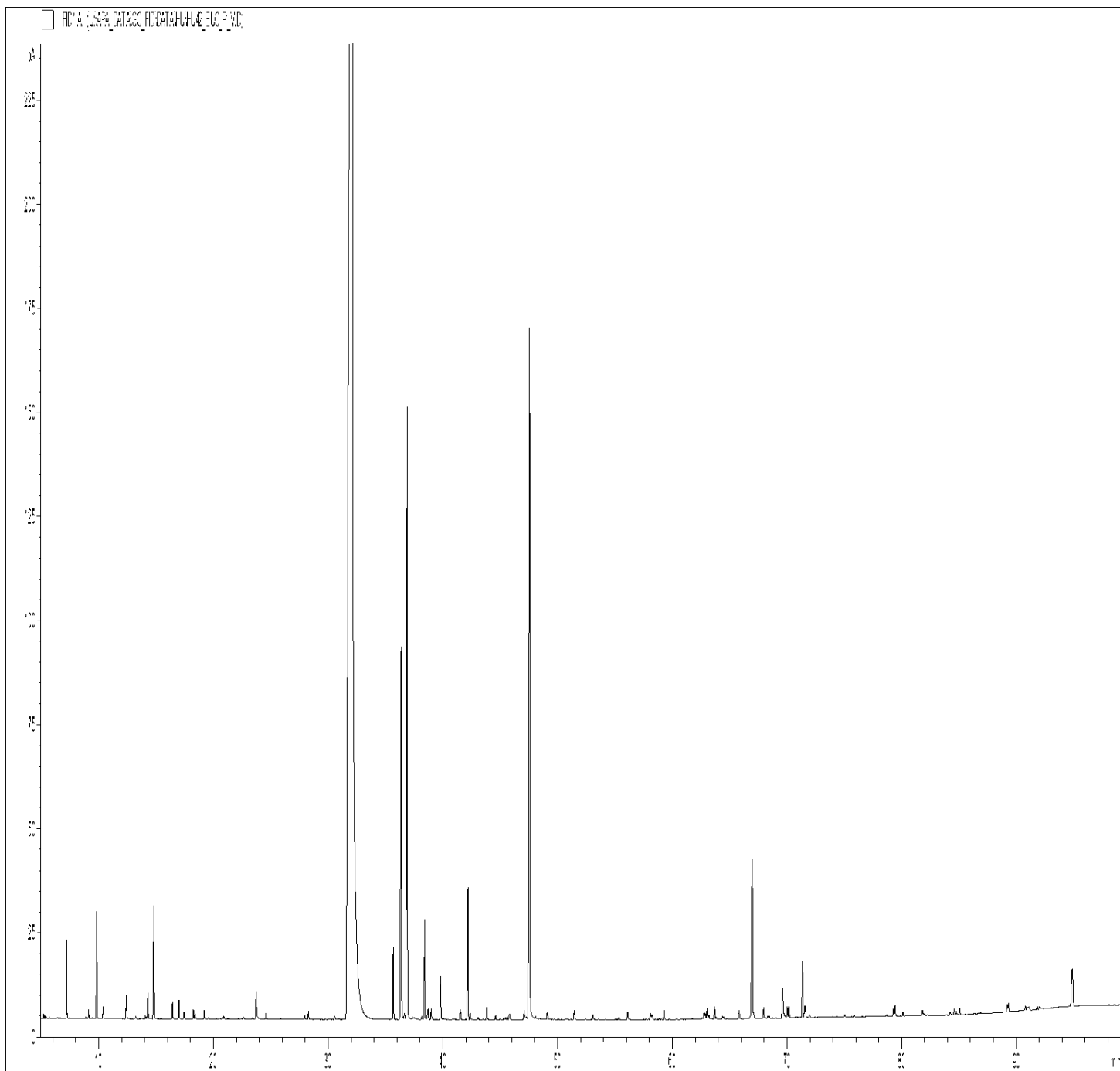


GCMS ANALYSIS

PRODUCT NAME: EUCALYPTUS LEMON ESSENTIAL OIL (BRAZIL) - 11320

DATE: July 5, 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 LEMON ESSENTIAL OIL (BRAZIL) - 11320

Peak	RT (min)	Compound	%
1	4.58	ACETONE	0.02
2	5.21	METHYL-METHYLETHYL-CYCLOPENTANE ISOMER	0.02
3	5.38	ISOVALERALDEHYDE	0.01
4	7.17	α -PINENE	0.33
5	7.24	α -THUYENE	0.02
6	9.11	ISOBUTYL ISOBUTYRATE	0.05
7	9.81	β -PINENE	0.62
8	10.37	SABINENE	0.07
9	12.39	β -MYRCENE	0.15
10	13.22	α -TERPINENE	0.01
11	14.06	ISOAMYL ISOBUTYRATE	0.02
12	14.28	LIMONENE	0.18
13	14.79	1,8-CINEOLE	0.74
14	16.42	cis- β -OCIMENE	0.10
15	16.98	γ -TERPINENE	0.13
16	17.43	trans- β -OCIMENE	0.04
17	18.24	3,8-p-MENTHADIENE	0.07
18	18.40	p-CYMENE	0.04
19	19.21	TERPINOLENE	0.06
20	19.55	TERPINOLENE ISOMER	0.01
21	20.78	TETRAMETHYL-CYCLOHEXANE ISOMER Mw=140	0.01
22	20.90	TETRAMETHYL-CYCLOHEXANE ISOMER Mw=140	0.02
23	22.59	ALIPHATIC ALCOHOL	0.02
24	23.72	ROSE cis-OXIDE	0.24
25	24.58	ROSE trans-OXIDE	0.05
26	27.95	cis-p-MENTHANE-8-OL	0.03
27	28.27	trans-p-MENTHANE-8-OL	0.05
28	30.56	MENTHONE	0.03
29	32.11	CITRONELLAL	73.70
30	35.67	LINALOOL	0.45

Disclaimer & Caution

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: EUCALYPTUS LEMON ESSENTIAL OIL (BRAZIL) - 11320

Peak	RT (min)	Compound	%
31	36.35	NEOISOPULEGOL	2.91
32	36.65	METHYL CITRONELLATE	0.04
33	36.89	ISOPULEGOL	5.14
34	37.34	BORNYL ACETATE	0.02
35	37.45	FENCHOL	0.04
36	38.15	β -ELEMENE	0.02
37	38.41	β -CARYOPHYLLENE	0.72
38	38.65	TERPINENE-4-OL	0.04
39	38.70	cis-p-MENTH-2-EN-1-OL	0.07
40	38.97	COMPOUND Mw=154	0.08
41	39.79	ISOISOPULEGOL	0.32
42	41.52	MELONOL	0.07
43	42.18	CITRONELLYL ACETATE	0.89
44	42.38	α -HUMULENE	0.05
45	43.07	NERAL	0.02
46	43.82	α -TERPINEOL	0.10
47	44.59	GERMACRENE D	0.03
48	45.30	CITRONELLYL PROPIONATE	0.01
49	45.48	α -MUUROLENE	0.02
50	45.63	BICYCLOGERMACRENE	0.02
51	45.83	GERANIAL	0.07
52	47.08	δ -CADINENE	0.09
53	47.26	GERANYL ACETATE	0.03
54	47.55	CITRONELLOL	6.46
55	48.09	BENZYL ISOBUTYRATE	0.03
56	49.10	NEROL	0.05
57	51.45	GERANIOL	0.08
58	53.08	2-PHENYLETHYL ISOBUTYRATE	0.05
59	56.10	cis-JASMONE	0.06
60	58.11	γ -OCTALACTONE	0.05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS LEMON ESSENTIAL OIL (BRAZIL) - 11320

Peak	RT (min)	Compound	%
61	58.24	CARYOPHYLLENE OXIDE	0.05
62	59.26	METHYLEUGENOL	0.08
63	62.77	SESQUITERPENOL	0.05
64	62.86	SESQUITERPENOL	0.04
65	63.03	GERANYLCITRONELLAL ISOMER	0.08
66	63.18	GERANYLCITRONELLAL ISOMER	0.03
67	63.69	GERANYLCITRONELLAL ISOMER	0.09
68	63.82	GERANYLCITRONELLAL ISOMER	0.01
69	64.38	GERANYLCITRONELLAL ISOMER	0.02
70	64.47	SPATHULENOL	0.02
71	65.84	EUGENOL	0.08
72	66.99	CITRONELLYL CITRONELLATE	1.94
73	67.99	CITRONELLYL CITRONELLATE ISOMER	0.09
74	68.34	CITRONELLYL CITRONELLATE ISOMER	0.02
75	68.45	CITRONELLYL CITRONELLATE ISOMER	0.02
76	69.62	CITRONELLIC ACID	0.35
77	70.04	GERANYLCITRONELLAL ISOMER	0.09
78	70.19	GERANYLCITRONELLAL ISOMER	0.09
79	71.37	CITRONELLYL CITRONELLATE ISOMER	0.44
80	71.60	CITRONELLYL CITRONELLATE ISOMER	0.16
81	71.98	CITRONELLYL CITRONELLATE ISOMER	0.02
82	75.05	GERANYLCITRONELLAL ISOMER	0.02
83	78.71	CITRONELLYL CITRONELLATE ISOMER	0.02
84	79.29	GERANYL CITRONELLATE ISOMER	0.06
85	79.43	CITRONELLIC ESTER	0.10
86	80.12	CITRONELLIC ESTER	0.03
87	81.83	CITRONELLIC ESTER	0.06
88	84.24	CITRONELLIC ESTER	0.03
89	84.58	CITRONELLIC ESTER	0.04
90	84.77	CITRONELLIC ESTER	0.03

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: EUCALYPTUS LEMON ESSENTIAL OIL (BRAZIL) - 11320

Peak	RT (min)	Compound	%
91	85.06	CITRONELIC ESTER	0.05
92	89.21	CITRONELIC ESTER	0.06
93	89.32	CITRONELIC ESTER	0.07
94	90.80	CITRONELIC ESTER	0.05
95	90.99	CITRONELIC ESTER	0.03
96	91.09	CITRONELIC ESTER	0.04
97	91.82	CITRONELIC ESTER	0.02
98	92.03	CITRONELIC ESTER	0.02
99	94.87	CITRONELIC ESTER	0.57
		TOTAL	99.89

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