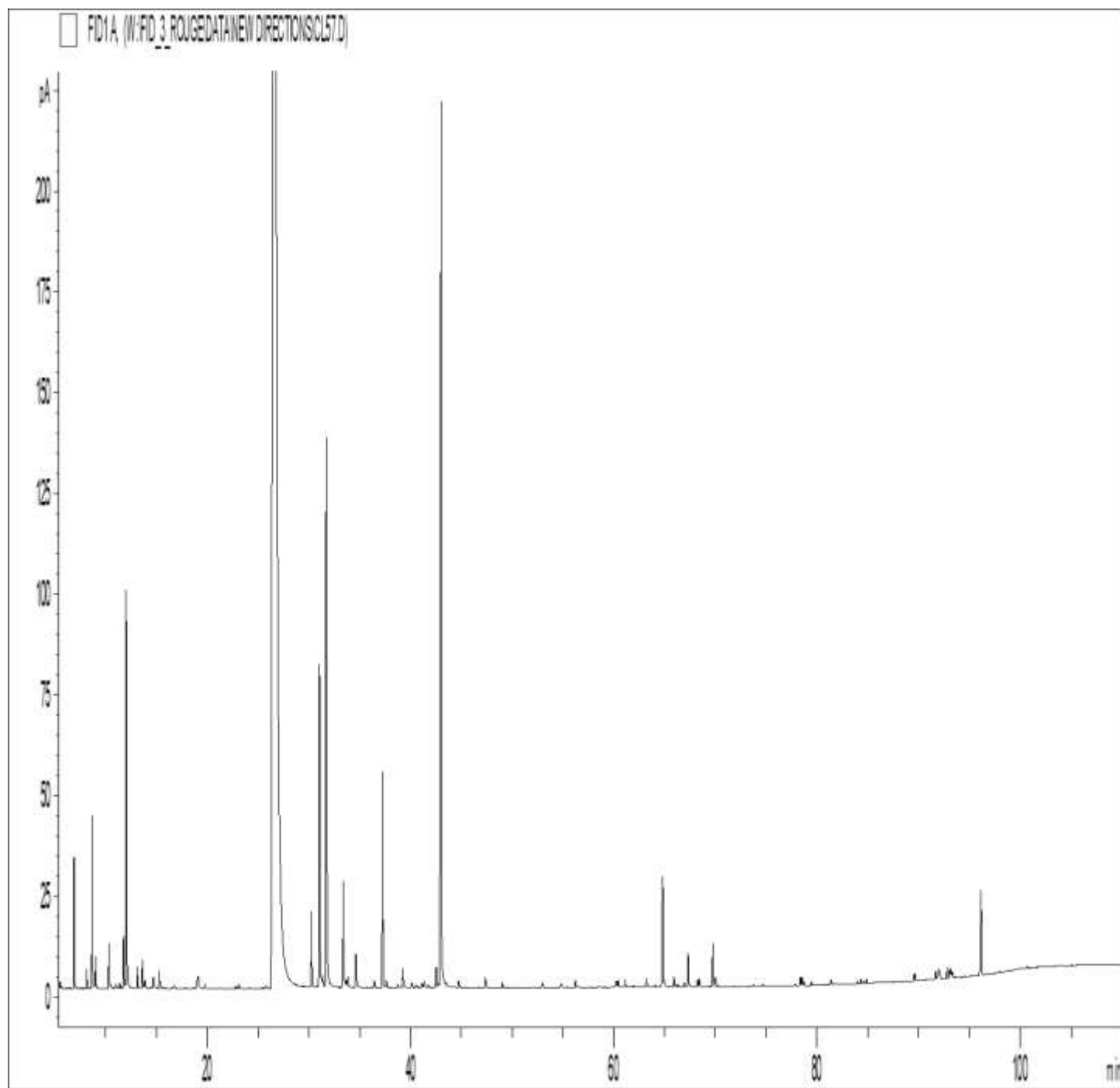


GCMS ANALYSIS

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

DATE: September 14, 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: EUCALYPTUS LEMON ESSENTIAL OIL (BRAZIL) - 11320

Peak	RT (min)	Compound	%
1	5,48	METHYL-METHYLETHYL-CYCLOPENTANE ISOMER	0,02
2	5,59	ISOVALERALDEHYDE	0,02
3	6,90	alpha-PINENE	0,41
4	6,94	alpha-THUYENE	0,07
5	8,16	ISOBUTYL ISOBUTYRATE	0,07
6	8,67	beta-PINENE	0,71
7	9,04	SABINENE	0,15
8	10,31	beta-MYRCENE	0,21
9	10,48	alpha-PHELLANDRENE	0,03
10	10,97	alpha-TERPINENE	0,03
11	11,38	ISOAMYL ISOBUTYRATE	0,02
12	11,50	AMYL ISOBUTYRATE	0,02
13	11,76	LIMONENE	0,32
14	12,03	1,8-CINEOLE	1,92
15	12,11	beta-PHELLANDRENE	0,17
16	13,10	cis-beta-OCIMENE	0,13
17	13,61	gamma-TERPINENE	0,17
18	13,88	trans-beta-OCIMENE	0,05
19	14,70	3,8-p-MENTHADIENE	0,06
20	14,75	p-CYMENE	0,05
21	15,29	TERPINOLENE	0,12
22	15,67	TERPINOLENE ISOMER	0,01
23	16,74	TETRAMETHYL-CYCLOHEXANE ISOMER Mw=140	0,02
24	19,10	ROSE cis-OXIDE	0,14
25	19,79	ROSE trans-OXIDE	0,03
26	22,80	cis-p-MENTHANE-8-OL	0,02
27	23,11	trans-p-MENTHANE-8-OL	0,03
28	25,76	MENTHONE	0,02
29	26,78	<b>CITRONELLAL</b>	<b>73,33</b>
30	29,47	alpha-GURJUNENE	0,01

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GCMS ANALYSIS (cont'd.)

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

Peak	RT (min)	Compound	%
31	30,26	LINALOOL	0,44
32	31,04	LINALYL ACETATE	0,09
33	31,37	<b>NEOISOPULEGOL</b>	<b>2,34</b>
34	31,71	<b>ISOPULEGOL</b>	<b>4,28</b>
35	32,20	epsilon-CADINENE	0,03
36	33,39	beta-CARYOPHYLLENE	0,76
37	33,50	TERPINENE-4-OL	0,06
38	33,66	ISOPULEGOL ISOMER	0,06
39	33,83	COMPOUND Mw=154	0,08
40	34,62	ISOISOPULEGOL	0,27
41	34,78	CITRONELLYL FORMIATE	0,01
42	36,45	MELONOL	0,05
43	37,26	CITRONELLYL ACETATE	1,23
44	37,64	alpha-HUMULENE	0,06
45	38,78	gamma-MUUROLENE	0,04
46	39,26	alpha-TERPINEOL	0,15
47	40,13	GERMACRENE D	0,05
48	40,57	MUUROLADIENE ISOMER	0,03
49	40,78	NERYL ACETATE	0,01
50	41,08	alpha-MUUROLENE	0,01
51	41,13	GERANIAL	0,04
52	41,38	BICYCLOGERMACRENE	0,06
53	41,77	CITRONELLYL PROPIONATE	0,03
54	42,54	delta-CADINENE	0,17
55	42,75	GERANYL ACETATE	0,04
56	43,02	<b>CITRONELLOL</b>	<b>6,82</b>
57	43,51	2-PHENYLMETHYL ISOBUTYRATE	0,02
58	44,73	NEROL	0,05
59	44,81	2-PHENYLETHYL ACETATE	0,01
60	47,37	GERANIOL	0,08

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GCMS ANALYSIS (cont'd.)

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

Peak	RT (min)	Compound	%
61	49,03	2-PHENYLETHYL ISOBUTYRATE	0,04
62	52,96	trans-JASMONE	0,05
63	54,81	CARYOPHYLLENE EPOXIDE	0,02
64	54,84	NONALACTONE	0,03
65	56,24	METHYLEUGENOL	0,05
66	60,21	GERANYLCITRONELLAL ISOMER	0,04
67	60,32	GERANYLCITRONELLAL ISOMER	0,03
68	61,14	GERANYLCITRONELLAL ISOMER	0,05
69	61,92	SPATHULENOL	0,01
70	63,23	EUGENOL	0,07
71	64,09	T-CADINOL	0,02
72	64,83	CITRONELLYL CITRONELLATE	1,09
73	64,96	alpha-MUUROLOL	0,07
74	65,93	CITRONELLYL CITRONELLATE ISOMER	0,07
75	66,18	CITRONELLYL CITRONELLATE ISOMER	0,02
76	66,33	CITRONELLYL CITRONELLATE ISOMER	0,01
77	66,97	alpha-CADINOL	0,03
78	67,31	CITRONELLIC ACID	0,26
79	68,26	GERANYLCITRONELLAL ISOMER	0,04
80	68,41	GERANYLCITRONELLAL ISOMER	0,05
81	69,75	CITRONELLYL CITRONELLATE ISOMER	0,25
82	69,99	CITRONELLYL CITRONELLATE ISOMER	0,09
83	70,24	CITRONELLYL CITRONELLATE ISOMER	0,01
84	74,66	CITRONELLYL CITRONELLATE ISOMER	0,01
85	77,83	CITRONELLYL CITRONELLATE ISOMER	0,01
86	78,37	CITRONELLYL CITRONELLATE ISOMER	0,05
87	78,54	CITRONELLYL CITRONELLATE ISOMER	0,05
88	78,72	CITRONELLYL CITRONELLATE ISOMER	0,02
89	79,45	CITRONELLYL CITRONELLATE ISOMER	0,02
90	81,39	CITRONELLIC ESTER	0,04

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GCMS ANALYSIS (cont'd.)

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

Peak	RT (min)	Compound	%
91	81,56	CITRONELLIC ESTER	0,01
92	81,77	CITRONELLIC ESTER	0,01
93	83,98	CITRONELLIC ESTER	0,02
94	84,34	CITRONELLIC ESTER	0,03
95	84,57	CITRONELLIC ESTER	0,02
96	84,87	CITRONELLIC ESTER	0,03
97	89,53	CITRONELLIC ESTER	0,04
98	89,65	CITRONELLIC ESTER	0,05
99	91,70	CITRONELLIC ESTER	0,06
100	91,93	CITRONELLIC ESTER	0,04
101	92,02	CITRONELLIC ESTER	0,09
102	92,11	CITRONELLIC ESTER	0,02
103	92,81	CITRONELLIC ESTER	0,06
104	93,05	CITRONELLIC ESTER	0,06
105	93,18	CITRONELLIC ESTER	0,06
106	93,29	CITRONELLIC ESTER	0,03
107	93,33	CITRONELLIC ESTER	0,03
108	96,15	CITRONELLIC ESTER	0,90
109	98,00	CITRONELLIC ESTER	0,02
110	100,64	CITRONELLIC ESTER	0,01
		<b>TOTAL</b>	<b>99,94</b>

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