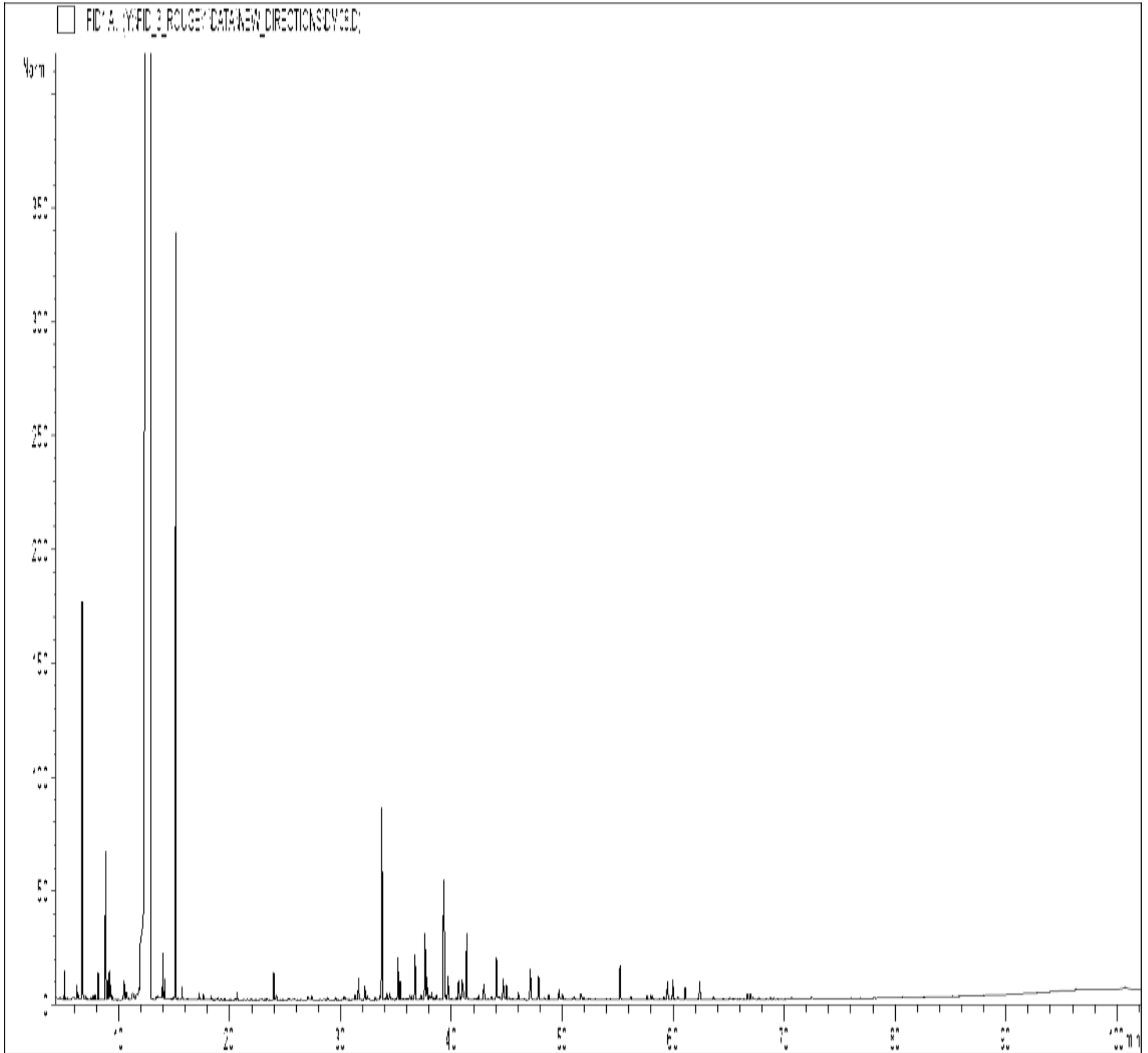




GCMS ANALYSIS

PRODUCT NAME: EUCALYPTUS ESSENTIAL OIL (BLUE MALLEE) - 11238

DATE: December 21, 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 ESSENTIAL OIL (BLUE MALLEE) - 11238

Peak	RT (min)	Compound	%
1	4,26	ACETONE	0,01
2	4,74	ISOVALERALDEHYDE	0,01
3	5,12	ETHANOL	0,05
4	6,24	AROMATIC COMPOUND	0,03
5	6,37	ISOBUTYL ACETATE	0,01
6	6,70	alpha-PINENE	0,84
7	6,72	alpha-THUYENE	0,04
8	7,05	TOLUENE	0,01
9	7,71	alpha-FENCHENE	0,01
10	7,88	CAMPHENE	0,01
11	8,16	ISOBUTYL ISOBUTYRATE	0,06
12	8,82	beta-PINENE	0,44
13	9,03	ISOAMYL ACETATE	0,05
14	9,16	SABINENE	0,09
15	9,29	PINADIENE	0,04
16	9,44	THUYA-2,4-DIENE	0,01
17	10,47	beta-MYRCENE	0,09
18	10,66	alpha-PHELLANDRENE	0,05
19	10,91	psi-LIMONENE	0,01
20	11,27	alpha-TERPINENE	0,05
21	11,41	1,8-CINEOLE, 2,3-DEHYDRO-	0,01
22	11,59	MENTHATRIENE ISOMER	0,04
23	11,82	AMYL ISOBUTYRATE	0,05
24	12,23	LIMONENE	0,95
25	12,87	1,8-CINEOLE	90,30
26	12,90	1,3,8-p-MENTHATRIENE	0,03
27	13,98	gamma-TERPINENE	0,10
28	14,15	MENTHATRIENE ISOMER	0,05
29	15,15	p-CYMENE	2,10
30	15,70	TERPINOLENE	0,03

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: EUCALYPTUS ESSENTIAL OIL (BLUE MALLEE) - 11238

Peak	RT (min)	Compound	%
31	17,26	3-HEXEN-1-OL ACETATE	0,02
32	17,62	PINOL	0,02
33	18,35	5-HEPTEN-2-ONE, 6-METHYL-	0,01
34	18,95	1-HEXANOL	0,01
35	20,69	3-HEXEN-1-OL	0,02
36	23,38	AROMATIC COMPOUND	0,01
37	23,99	alpha-p-DIMETHYLSTYRENE	0,08
38	24,16	alpha-THUYONE	0,01
39	24,24	LINALOOL cis-OXIDE	0,02
40	25,36	alpha-CUBEBENE	0,01
41	25,84	LINALOOL trans-OXIDE	0,01
42	27,08	alpha-CAMPHOLENAL	0,01
43	27,42	alpha-COPAENE	0,02
44	-	CAMPHOR	nd
45	28,86	ALIPHATIC ESTER	0,01
46	29,58	alpha-PINOCAMPHONE	0,01
47	30,32	beta-PINOCAMPHONE	0,01
48	30,44	COMPOUND Mw=152	0,01
49	31,33	trans-p-MENTH-2-EN-1-OL	0,02
50	31,63	PINOCARVONE	0,08
51	32,19	NOPINONE + 2,4-NONADIENAL	0,05
52	32,44	COMPOUND Mw=138	0,01
53	32,57	FENCHOL	0,01
54	33,13	ALIPHATIC ESTER	0,01
55	33,56	beta-CARYOPHYLLENE	0,02
56	33,74	TERPINENE-4-OL	0,61
57	34,20	AROMADENDRENE	0,03
58	34,44	SESQUITERPENE	0,03
59	35,00	COMPOUND Mw=122	0,01
60	35,19	MYRTENAL	0,14

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: EUCALYPTUS ESSENTIAL OIL (BLUE MALLEE) - 11238

Peak	RT (min)	Compound	%
61	35,39	SABINAKETONE + cis-p-2,8-MENTHADIEN-1-OL	0,06
62	36,25	TERPENIC ESTER	0,02
63	36,42	ALLO-AROMADENDRENE	0,01
64	36,73	trans-PINOCARVEOL	0,15
65	37,26	trans-p-2,8-MENTHADIEN-1-OL	0,03
66	37,63	CRYPTONE	0,23
67	37,80	delta-TERPINEOL	0,07
68	38,09	trans-VERBENOL	0,01
69	38,24	CYCLOHEXENYL ALCOHOL ISOMER	0,03
70	38,44	CYCLOHEXENYL ALCOHOL ISOMER	0,01
71	38,68	NERAL	0,02
72	38,96	gamma-MUUROLENE	0,01
73	39,31	TERPENYL ACETATE	0,54
74	39,49	VERBENONE	0,02
75	39,69	alpha-TERPINEOL	0,08
76	39,99	AROMATIC COMPOUND	0,01
77	40,44	SESQUITERPENE	0,01
78	40,64	PHELLANDRAL	0,06
79	40,68	PIPERITONE	0,02
80	40,96	exo-2-HYDROXYCINEOLE ACETATE	0,07
81	41,04	GERANIAL	0,06
82	41,37	CARVONE	0,22
83	42,46	Trans-ISOPIPERITENOL	0,02
84	42,90	delta-CADINENE	0,05
85	42,93	GERANYL ACETATE	0,03
86	43,61	p-METHYLACETOPHENONE	0,02
87	44,05	CUMINAL	0,16
88	44,23	PERILLALDEHYDE + MENTHADIENOL ISOMER	0,01
89	44,33	p-MENTHA-1,3-DIEN-7-AL	0,01
90	44,66	MYRTENOL	0,08

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS ESSENTIAL OIL (BLUE MALLEE) - 11238

Peak	RT (min)	Compound	%
91	44,96	MENTHADIENOL ISOMER	0,05
92	46,03	2-PHENYLETHYL ACETATE	0,03
93	47,10	CALAMENENE	0,09
94	47,13	trans-CARVEOL	0,06
95	47,85	p-CYMENE-8-OL	0,09
96	48,36	exo-2-HYDROXYCINEOLE	0,01
97	48,77	Cis-CARVEOL	0,02
98	49,71	PHENYLETHYL ESTER	0,04
99	50,00	AROMATIC COMPOUND	0,02
100	51,08	MENTHADIENOL ISOMER	0,01
101	51,68	alpha-CALACORENE	0,03
102	51,93	AROMATIC COMPOUND	0,01
103	55,20	CARYOPHYLLENE EPOXIDE	0,12
104	56,17	SESQUITERPENIC EPOXIDE	0,01
105	57,63	LEDOL	0,02
106	57,97	AROMATIC COMPOUND	0,02
107	58,14	AROMATIC COMPOUND	0,01
108	59,15	epi-CUBENOL	0,01
109	59,48	CUBENOL	0,07
110	59,96	GLOBULOL	0,07
111	60,42	VIRIDIFLOROL	0,01
112	61,07	CUMINOL	0,04
113	62,38	SPATHULENOL	0,06
114	66,68	THYMOL	0,02
115	66,96	AROMATIC COMPOUND	0,02
116	68,75	SESQUITERPENONE Mw=218	0,01
		TOTAL	99,95

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