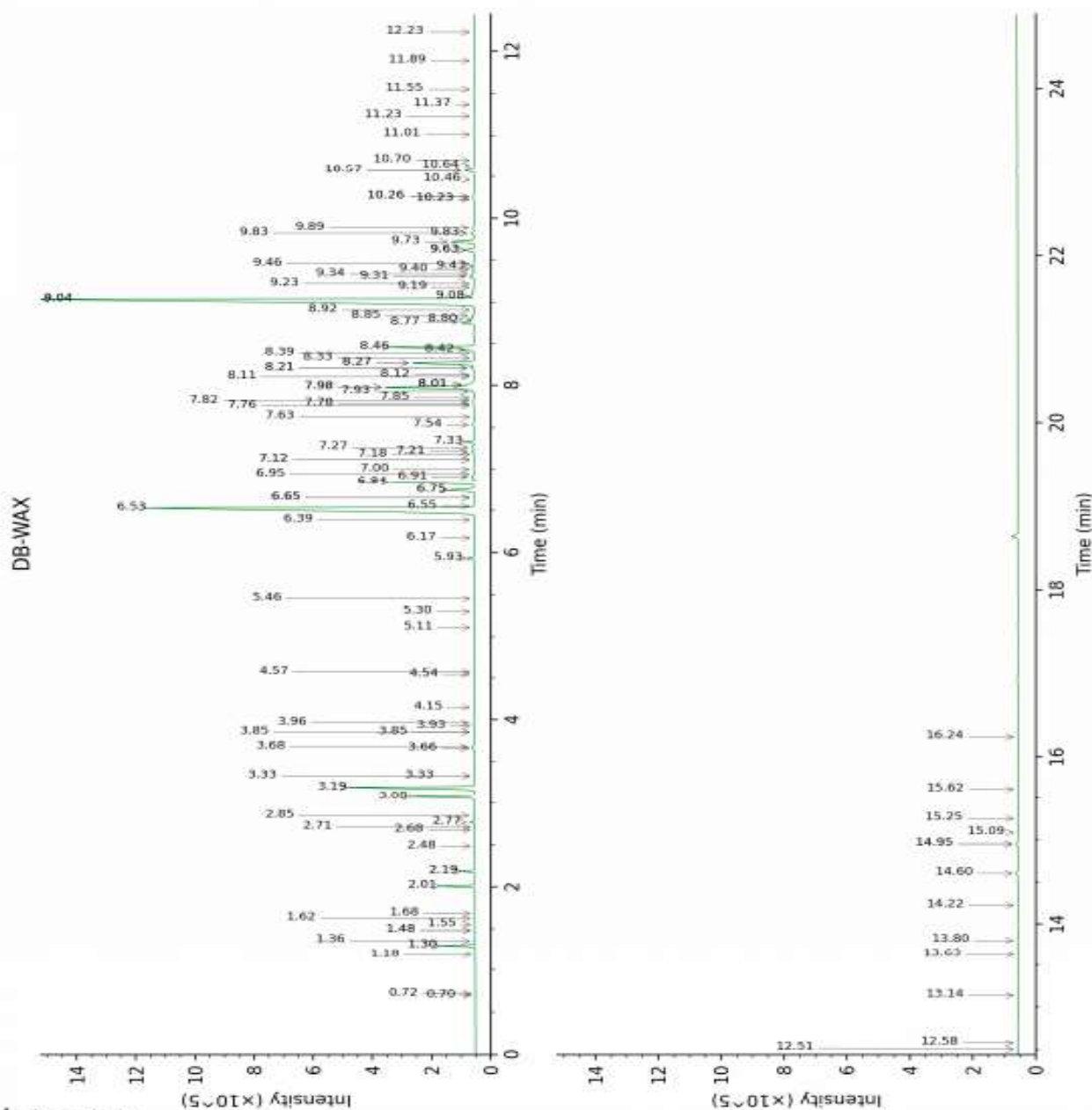


GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) - VERIFIED BY ECOCERT/COSMOS APPROVED - 11114
 DATE: April 20, 2021



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.)

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Peak	RT (min)	Compound name	%
1	0,72	Isovaleral	0,005
2	0,7	2-Methylbutyral	0,003
3	3,33*	Isoamyl alcohol	0,008
4	3,33*	2-Methylbutanol	[0,008]
5	5,3	Hexanol	0,017
6	1,48*	trans-2,5-Diethyltetrahydrofuran	0,022
7	1,18	Tricyclene	0,002
8	1,36	α -Thujene	0,032
9	1,30*	α-Pinene	1,082
10	6,65*	trans-3-Methylcyclohexanol	0,032
11	4,54	3-Methylcyclohexanone	0,053
12	1,55	α -Fenchene	0,01
13	1,62	Camphene	0,027
14	2,19*	Thuja-2,4(10)-diene	0,466
15	2,19*	Sabinene	[0,466]
16	2,01	β-Pinene	1,257
17	1,30*	cis-para-Menthane	[1,082]
18	6,55	Octen-3-ol	0,035
19	1,68	cis-Carane	0,015
20	3,86*	Octan-3-one	0,047
21	1,48*	trans-para-Menthane	[0,022]
22	2,77	Myrcene	0,162
23	5,93	Octan-3-ol	0,299
24	2,68	α -Phellandrene	0,012
25	2,71	Pseudolimonene	0,015
26	2,48	Δ^3 -Carene	0,005
27	2,85	α -Terpinene	0,06
28	3,96	para-Cymene	0,075
29	3,2	1,8-Cineole	5,685
30	3,08	Limonene	2,517

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
31	7,12*	2-Ethylhexanol	0,02
32	3,66	(Z)- β -Ocimene	0,04
33	3,86*	(E)- β -Ocimene	[0,047]
34	3,68	γ -Terpinene	0,111
35	6,74*	cis-Sabinene hydrate	1,313
36	3,93	para-Mentha-3,8-diene	0,005
37	6,39	cis-Linalool oxide (fur,)	0,005
38	8,01*	Octanol	[5,078]
39	4,15	Terpinolene	0,038
40	6,17	para-Cymenene	0,014
41	7,76	trans-Sabinene hydrate	0,013
42	7,93	Linalool	0,067
43	7,18	Nonan-3-ol	0,003
44	4,57	Amyl isovalerate	0,013
45	8,21*	endo-Fenchol	3,415
46	7,98*	cis-para-Menth-2-en-1-ol	5,078
47	5,46	allo-Ocimene	0,006
48	5,11	Octan-3-yl acetate	0,003
49	7,85	trans- β -Dihydroterpineol	0,021
50	9,63*	trans-Sabinol	0,486
51	8,01*	cis- α -Dihydroterpineol	[5,078]
52	8,01*	Isopulegol	[5,078]
53	6,53	Menthone	26,155
54	7,78	para-Menthan-4-ol isomer	0,057
55	6,84*	Isomenthone	4,057
56	6,74*	Menthofuran	[1,313]
57	9,63*	Borneol	[0,486]
58	8,46	neo-Menthol	[4,045]
59	9,04*	Menthol	36,062
60	8,42	Terpinen-4-ol	4,045

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
61	8,80	Isomenthol	[0,977]
62	11,37	para-Cymen-8-ol	0,022
63	9,63*	α -Terpineol	[0,486]
64	9,31	neoiso-Menthol	0,199
65	10,7	Myrtenol	0,017
66	9,18	Methylchavicol	0,015
67	10,23*	trans-Isopiperitenol	0,056
68		Unknown [m/z 43, 99 (84), 81 (46), 986 (43), 126 (36), 71 (28),,, 170 (12)]	
69	10,23*	trans-Piperitol	[0,056]
70	7,12*	Decanal	[0,020]
71	11,23	trans-Carveol	0,021
72	11,55	cis-Carveol	0,034
73	10,57*	Citronellol	0,435
74	8,76	Pulegone	0,977
75	9,83*	Carvone	0,164
76	9,73	Piperitone	1,102
77	10,64	cis-Carvone oxide	0,011
78	11,01	Isopiperitenone	0,014
79	10,57*	Decanol	[0,435]
80	7,54	neo-Menthyl acetate	0,089
81		2-Ethylmenthone?	
82	8,1	Bornyl acetate	0,016
83	6,94	Dihydroedulan I	0,022
84	7,98*	Menthyl acetate	[5,078]
85	7,27	Dihydroedulan II	0,107
86	14,95*	Thymol	0,052
87	8,12	Isomenthyl acetate	0,059
88	6,91	Bicycloelemene	0,146
89	11,89	Piperitenone	0,027
90	6,65*	α -Cubebene	[0,032]

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Peak	RT (min)	Compound name	%
91	12,23	Evodone	0,02
92	14,6	Eugenol	0,051
93	10,46	cis-Carvyl acetate	0,009
94	6,84*	α -Ylangene	[4,057]
95	7	α -Copaene	0,052
96	7,21	1,5-diepi - β -Bourbonene	0,114
97	7,33	β -Bourbonene	0,329
98	7,63	β -Cubebene	0,017
99	8,27*	β -Elemene	[3,415]
100		Unknown [m/z 107, 121 (79), 119 (66), 91 (58), 136 (55), 105 (49),,, 194 (1)]	
101	7,82	Longifolene	0,064
102	8,01*	Isocaryophyllene	[5,078]
103	13,14	Methyleugenol	0,015
104	8,27*	β-Caryophyllene	[3,415]
105	7,98*	β -Ylangene	[5,078]
106	8,21*	β -Copaene	[3,415]
107		Unknown [m/z 177, 109 (32), 192 (26), 95 (25), 137 (23)]	
108	8,39	Aromadendrene	0,023
109	8,33	trans- α -Bergamotene	0,01
110	8,85	Isogermacrene D	0,104
111	8,92	9-epi-Isocaryophyllene	0,018
112	9,08	α -Humulene	0,314
113	9,04*	Muurola-4,11-diene	[36,062]
114	9,34	(E)- β -Farnesene	0,093
115	9,23	9-epi- β -Caryophyllene	0,039
116	9,4	γ -Muurolene	0,067
117	9,63*	Germacrene D	[0,486]
118	9,43	α -Amorphene	0,044
119	15,62	Menthalactone	0,014
120	9,46	Viridiflorene	0,038

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Peak	RT (min)	Compound name	%
121	9,89	Bicyclogermacrene	0,091
122	9,83*	α -Muurolene	[0,164]
123	16,24	5-Methyl-2,4-diisopropylphenol	0,01
124	10,26*	γ -Cadinene	0,076
125	10,26*	δ -Cadinene	[0,076]
126	13,63	(E)-Nerolidol	0,005
127	14,22	Spathulenol	0,005
128	12,58	Caryophyllene oxide	0,031
129	12,51	Caryophyllene oxide isomer	0,006
130	13,8	Viridiflorol	0,036
131	15,25	Isospathulenol	0,006
132	14,95*	Unknown cadinol analog II [m/z 95, 121 (73), 43 (57), 79 (43), 161 (43), 109 (40),,, 204 (35), 222 (2)]	[0,052]
133	15,09	α -Eudesmol	0,003
134		Phytol	
		TOTAL	99,25

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