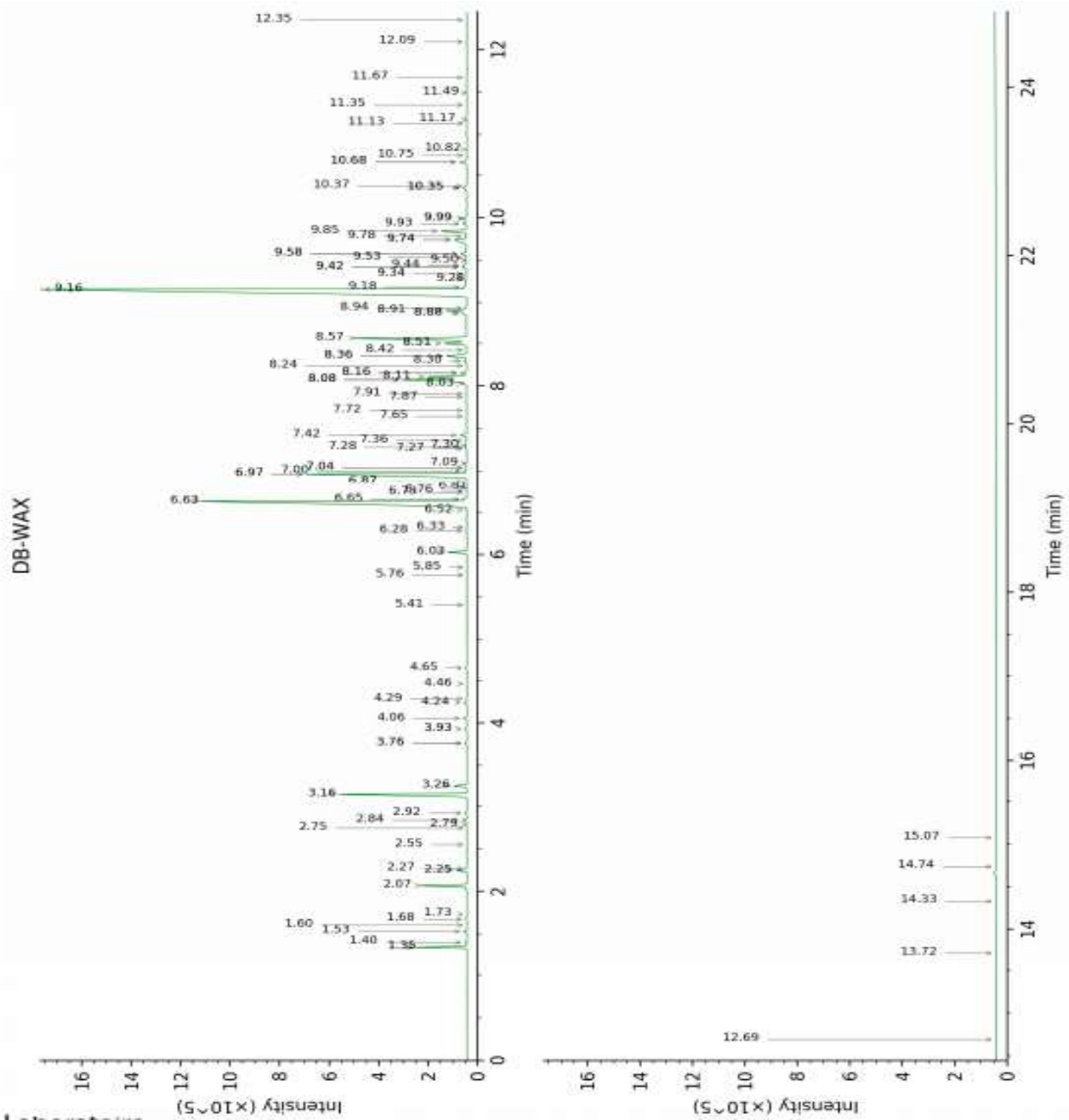


GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (JAPANESE) -VERIFIED BY ECOCERT/COSMOS APPROVED - 11115
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.

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Peak	RT (min)	Compound name	%
1	5,76	(3Z)-Hexenol	0,009
2	5,41	Hexanol	0,011
3	1,53	trans-2,5-Diethyltetrahydrofuran	0,112
4	1,35*	Hashishene	1,589
5	1,4	α-Thujene	0,061
6	1,35*	α-Pinene	[1,589]
7	6,65	trans-3-Methylcyclohexanol	0,159
8	1,68	Camphene	0,045
9	1,6	α -Fenchene	0,014
10	4,65	3-Methylcyclohexanone	0,068
11	2,28	Thuja-2,4(10)-diene	0,009
12	2,25	Sabinene	0,391
13	2,07	β-Pinene	1,749
14	6,76	Octen-3-ol	0,025
15	1,73	cis-Carane	0,013
16	3,93*	Octan-3-one	0,099
17	2,84	Myrcene	0,174
18	6,03	Octan-3-ol	0,74
19	2,75	α -Phellandrene	0,01
20	2,79	Pseudolimonene	0,028
21	2,55	Δ^3 -Carene	0,012
22	2,92	α -Terpinene	0,074
23	4,06	para-Cymene	0,132
24	3,16	Limonene	5,587
25	3,26	1,8-Cineole	0,548
26	7,28	2-Ethylhexanol	0,092
27	3,76*	(Z)- β -Ocimene	0,085
28	3,93*	(E)- β -Ocimene	[0,099]
29	3,76*	γ -Terpinene	[0,085]
30	6,87*	cis-Sabinene hydrate	0,063

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Peak	RT (min)	Compound name	%
31	6,52	cis-Linalool oxide (fur.)	0,032
32	8,16*	Octanol	0,268
33	4,28	Terpinolene isomer	0,036
34	4,24	Terpinolene	0,119
35	6,28	para-Cymenene	0,039
36	6,87*	trans-Linalool oxide (fur.)	[0,063]
37		Unknown [m/z 81, 43 (78), 55 (47), 96 (46), 95 (31), 41 (23),...]	
38	7,91	trans-Sabinene hydrate	0,043
39	8,03	Linalool	0,155
40	7,3	Nonan-3-ol	0,055
41	5,85	Nonanal	0,006
42	4,46	2-Methylbutyl 2-methylbutyrate	0,013
43	8,94	trans-para-Mentha-2,8-dien-1-ol	0,063
44	6,32	cis-Limonene oxide	0,012
45	9,44	cis-para-Mentha-2,8-dien-1-ol	[0,383]
46	9,78	trans-Sabinol	0,061
47	8,11	Isopulegol	[4,904]
48	6,63	Menthone	19,789
49	6,97*	Isomenthone	9,25
50	6,81	Menthofuran	0,029
51	8,57	neo-Menthol	5,29
52	9,42*	δ -Terpineol	0,383
53	9,58*	Lavandulol	0,288
54	8,50*	Terpinen-4-ol	1,042
55	9,16	Menthol	37,907
56	8,91	Isomenthol	0,954
57	11,49	para-Cymen-8-ol	0,019
58	9,74*	α -Terpineol	0,94
59	9,42*	neoiso-Menthol	[0,383]
60	10,82	Myrtenol	0,015

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Peak	RT (min)	Compound name	%
61	9,28	Methylchavicol	0,021
62	10,35*	trans-Isopiperitenol	0,254
63		Unknown [m/z 43, 99 (84), 81 (46), 986 (43), 126 (36), 71 (28),,, 170 (12)]	
64	10,37	trans-Piperitol	[0,254]
65	7,04*	Octyl acetate	0,042
66	10,75	iso-Dihydrocarveol ?	0,014
67	11,35	trans-Carveol	0,022
68		Unknown [m/z 109, 85 (79), 41 (59), 55 (54), 95 (47), 82 (40),,, 152 (16)]	
69	11,67	cis-Carveol	0,03
70	10,68*	Citronellol	0,351
71	8,88*	Pulegone	0,198
72	9,99*	Carvone	0,22
73	9,84	Piperitone	1,158
74	11,13	Isopiperitenone	0,021
75	7,65	neo-Menthyl acetate	0,044
76	10,68*	Decanol	[0,351]
77	7,04*	Dihydroedulan I	[0,042]
78	7,36	Dihydroedulan II	0,084
79	8,08*	Menthyl acetate	4,904
80	15,07	Thymol	0,03
81	8,24	Isomenthyl acetate	0,017
82		Unknown [m/z 43, 136 (55), 121 (55), 107 (48), 93 (48), 81 (30), 79 (29),,,]	
83	7	Bicycloelemene	0,14
84	6,73	α -Cubebene	0,02
85	12,35	Evodone	0,017
86	14,74	Eugenol	0,036
87	6,97*	α -Ylangene	[9,250]
88	7,09	α -Copaene	0,044
89	7,42	β -Bourbonene	0,294
90	7,27	1,5-diepi- β -Bourbonene	0,021

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Peak	RT (min)	Compound name	%
91	8,36*	β -Elemene	1,073
92	7,72	β -Longipinene	0,032
93	7,87	Longifolene	0,034
94	8,08*	Isocaryophyllene	[4,904]
95	8,36*	β -Caryophyllene	[1,073]
96	8,08*	β -Ylangene	[4,904]
97	8,16*	cis- $\dot{\pm}$ -Bergamotene	[0,268]
98	8,3	β -Copaene	0,117
99		Unknown [m/z 177, 109 (32), 192 (26), 95 (25), 137 (23)]	
100	8,50*	Aromadendrene	[1,042]
101	8,42	trans- $\dot{\pm}$ -Bergamotene	0,021
102	8,88*	Isogermacrene D	[0,198]
103	9,18	α -Humulene	0,172
104	9,34	9-epi- β -Caryophyllene	0,037
105	9,5	(E)- β -Farnesene	0,045
106	9,53	γ -Muurolene	0,043
107	9,74*	Germacrene D	[0,940]
108	9,58*	Viridiflorene	[0,288]
109	9,99*	Bicyclogermacrene	[0,220]
110	9,99*	α -Muurolene	[0,220]
111	9,93	ϵ -Amorphene	0,203
112	10,35*	γ -Cadinene	[0,254]
113	10,35*	δ -Cadinene	[0,254]
114	11,17	trans-Calamenene	0,013
115	12,09	Isocaryophyllene epoxide B	0,033
116	13,72	(E)-Nerolidol	0,016
117	14,33	Spathulenol	0,025
118	12,69	Caryophyllene oxide	0,02
		TOTAL	98,98

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