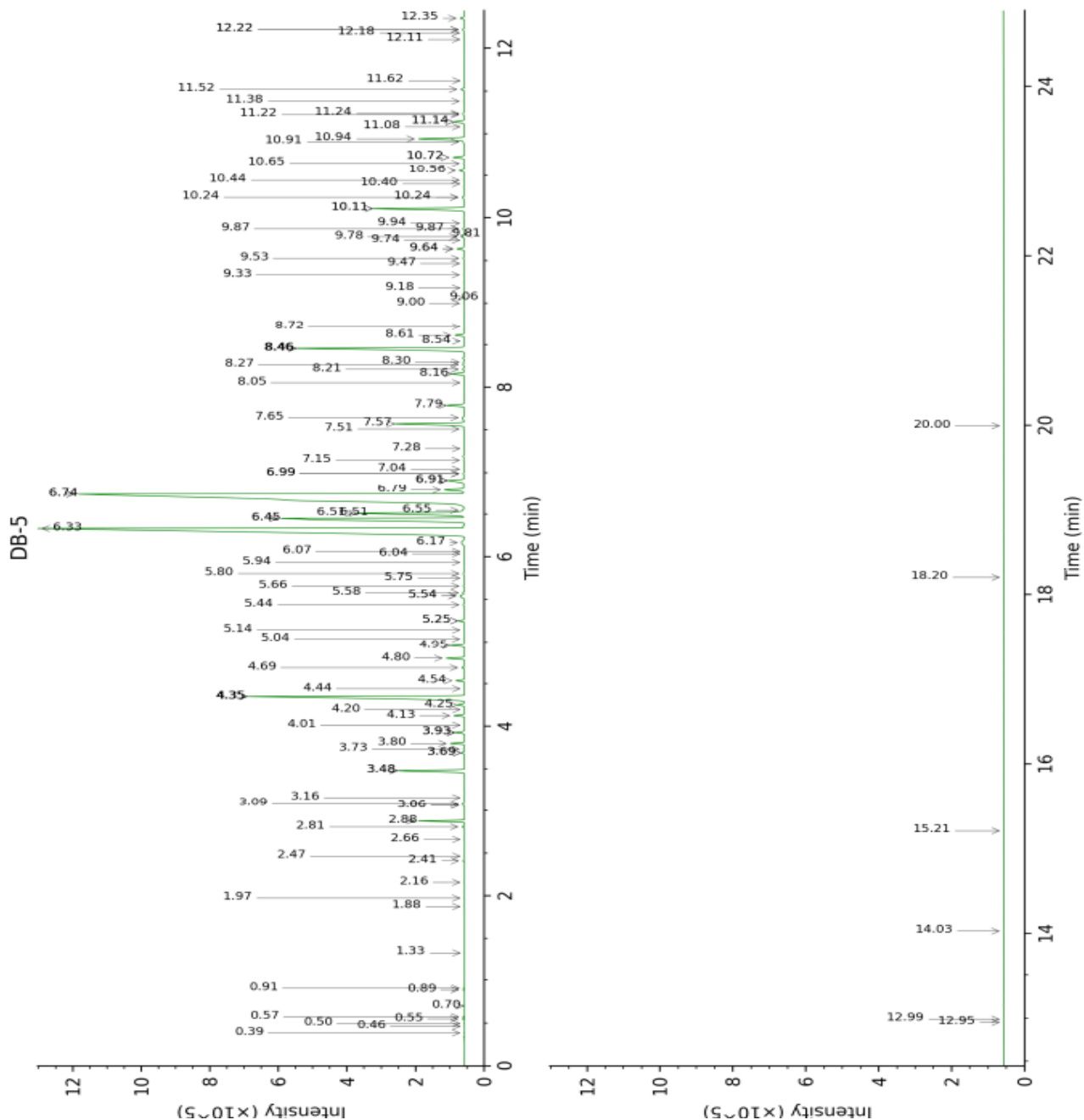


GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

DATE: March 22, 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: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

Peak	RT (min)	Compound name	%
1	0,39	ISOBUTYRAL	tr
2	0,46	2-METHYL-3-BUTEN-2-OL	tr
3	0,50	ISOBUTANOL	tr
4	0,55	ISOVALERAL	0,02
5	0,58	2-METHYLBUTYRAL	0,01
6	0,70	2-ETHYLFURAN	tr
7	0,89	ISOAMYL ALCOHOL	0,02
8	0,91	2-METHYLBUTANOL	0,01
9	1,33	HEXANAL	tr
10	1,88	ETHYL 2-METHYLBUTYRATE	0,01
11	1,97	(3Z)-HEXENOL	0,01
12	2,16	HEXANOL	0,01
13	2,41	TRANS-2,5- DIETHYLTETRAHYDROFURAN	0,03
14	2,47	HEPTANAL	tr
15	2,66	HASHISHENE	tr
16	2,81	α -THUJENE	0,05
17	2,88	α -PINENE	0,88
18	3,06*	UNKNOWN [M/Z 91, 92 (47), 65 (11),, 134 (1)]	0,09
19	3,06*	CAMPHENE	[0,09]
20	3,09	3-METHYLCYCLOHEXANONE	[0,09]
21	3,16	THUJA-2,4(10)-DIENE	0,01
22	3,48*	β -PINENE	1,87
23	3,48*	SABINENE	[1,87]
24	3,48*	C/S-PARA-MENTHANE	[1,87]
25	3,69*	OCTEN-3-OL	0,08
26	3,69*	C/S-CARANE	[0,08]
27	3,69*	TRANS-PARA-MENTHANE	[0,08]
28	3,74	OCTAN-3-ONE	0,03
29	3,80	MYRCENE	0,30
30	3,93*	OCTAN-3-OL	0,24

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

Peak	RT (min)	Compound name	%
31	3,93*	A-PHELLANDRENE	[0,24]
32	3,93*	PSEUDOLIMONENE	[0,24]
33	3,93*	OCTANAL	[0,24]
34	4,02	δ3-CARENE	0,01
35	4,13	α-TERPINENE	0,24
36	4,20	CARVOMENTHENE	0,01
37	4,25	PARA-CYMENE	0,20
38	4,35*	LIMONENE	7,84
39	4,35*	1,8-CINEOLE	[7,84]
40	4,44	2-ETHYLHEXANOL	0,01
41	4,54	(Z)-B-OCIMENE	0,19
42	4,69	(E)-B-OCIMENE	0,06
43	4,80	γ-TERPINENE	0,41
44	4,95	CIS-SABINENE HYDRATE	0,33
45	5,04	CIS-LINALOOL OXIDE (FUR,)	0,02
46	5,14	OCTANOL	0,02
47	5,25*	TERPINOLENE	0,16
48	5,25*	PARA-CYMENENE	0,16
49	5,44	TRANS-SABINENE HYDRATE	0,04
50	5,54*	LINALOOL	0, 22
51	5,54*	NONAN-3-OL	0,22
52	5,58	2-METHYLBUTYL 2- METHYLBUTYRATE	0,05
53	5,66	AMYL ISOVALERATE	0,03
54	5,75	OCTEN-3-YL ACETATE	0,02
55	5,80	CIS-PARA-MENTH-2-EN-1- OL	0,02
56	5,94	OCTAN-3-YL ACETATE	0,06
57	6,04	TRANS-PARA-MENTH-2- EN-1-OL	0,01
58	6,06	CIS-A-DIHYDROTERPINEOL	0,02
59	6,17	ISOPULEGOL	0,21
60	6,33	MENTHONE	25,38

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

Peak	RT (min)	Compound name	%
61	6,45*	ISOMENTHONE	7,73
62	6,45*	MENTHOFURAN	[7,73]
63	6,51*	NEO-MENTHOL	3,38
64	6,51*	δ-TERPINEOL	[3,38]
65	6,55	LAVANDULOL	0,04
66	6,74*	TERPINEN-4-OL	33,17
67	6,74*	MENTHOL	[33,17]
68	6,79	ISOMENTHOL	0,56
69	6,91*	MYRTENAL	0,56
70	6,91*	NEOISO-MENTHOL	[0,56]
71	6,91*	α-TERPINEOL	[0,56]
72	6,99*	TRANS-ISOPIPERITENOL	0,06
73	6,99*	METHYLCHAVICOL	[0,06]
74	6,99*	MYRTENOL	[0,06]
75	7,04	UNKNOWN [M/Z 43, 99(84), 81 (46), 986 (43),126 (36), 71 (28),,, 170 (12)]	0,02
76	7,15	TRANS-PIPERITOL	0,04
77	7,28	TRANS-CARVEOL	0,01
78	7,51	CITRONELLOL	0,03
79	7,57	PULEGONE	1,92
80	7,65	CARVONE	0,05
81	7,79	PIPERITONE	0,47
82	8,06	ISOPIPERITENONE	0,01
83	8,16	NEO-MENTHYL ACETATE	0,32
84	8,21	DECANOL	0,05
85	8,27	2-ETHYLMENTHONE?	0,05
86	8,30	DIHYDROEDULAN I	0,03
87	8,46*	MENTHYL ACETATE	5,18
88	8,46*	DIHYDROEDULAN II	[5,18]
89	8,54*	THYMOL	0,01
90	8,61	ISOMENTHYL ACETATE	0,26

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

Peak	RT (min)	Compound name	%
91	8,72	NEOISO-MENTHYLACETATE?	0,01
92	9,00	BICYCLOELEMENE	0,02
93	9,06	PIPERITENONE	0,01
94	9,18	α -CUBEBENE	0,01
95	9,33	EUGENOL	0,03
96	9,47	α -YLANGENE	0,02
97	9,53	α -COPAENE	0,04
98	9,64*	β -BOURBONENE	0,22
99	9,64*	1,5-DIEPI-B-BOURBONENE	[0,22]
100	9,74	β -CUBEBENE	0,02
101	9,78	β -ELEMENE	0,09
102	9,81	UNKNOWN [M/Z 107,121 (79), 119 (66), 91(58), 136 (55), 105(49),,, 194 (1)]	0,01
103	9,87*	(Z)-JASMONE	0,05
104	9,87*	LONGIFOLENE	[0,05]
105	9,94	ISOCARYOPHYLLENE	0,02
106	10,11*	β -YLANGENE	2,57
107	10,11*	β -CARYOPHYLLENE	[2,57]
108	10,24*	β -COPAENE	0,06
109	10,24*	UNKNOWN [M/Z 177,109 (32), 192 (26), 95(25), 137 (23)]	[0,06]
110	10,40	TRANS-A-BERGAMOTENE	0,01
111	10,44	ISOGERMACRENE D	0,03
112	10,56	α -HUMULENE	0,14
113	10,65	MUUROLA-4,11-DIENE	0,03
114	10,72*	9-EPI-B-CARYOPHYLLENE	0,31
115	10,72*	(E)-B-FARNESENE	[0,31]
116	10,91	γ -MUUROLENE	0,05
117	10,94	GERMACRENE D	1,31
118	11,08	MENTHALACTONE	0,01
119	11,14*	VIRIDIFLORENE	0,30
120	11,14*	BICYCLOGERMACRENE	[0,30]

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

Peak	RT (min)	Compound name	%
121	11,22	α-MUUROLENE	0,03
122	11,24	ε-AMORPHENE	0,04
123	11,38	γ-CADINENE	0,03
124	11,52	δ-CADINENE	0,10
125	11,62	TRANS-CADINA-1,4-DIENE	0,01
126	12,11	(E)-NEROLIDOL	0,01
127	12,18	SPATHULENOL	0,03
128	12,22*	CARYOPHYLLENE OXIDE	0,07
129	12,22*	CARYOPHYLLENE OXIDEISOMER	[0,07]
130	12,35	VIRIDIFLOROL	0,12
131	12,95	ISOSPATHULENOL	0,01
132	12,99	T-CADINOL	0,01
133	14,03	MINT SULFIDE?	0,01
134	15,21	UNKNOWN [M/Z 123,191 (88), 81 (86), 41(86), 151 (80), 91 (76),,,]	0,01
135	18,20	PHYTOL	0,01
136	20,00	UNKNOWN [M/Z 165,166 (48), 137 (11), 67(9), 124 (7), 43 (7),,,]	0,01
		TOTAL	99,02%

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