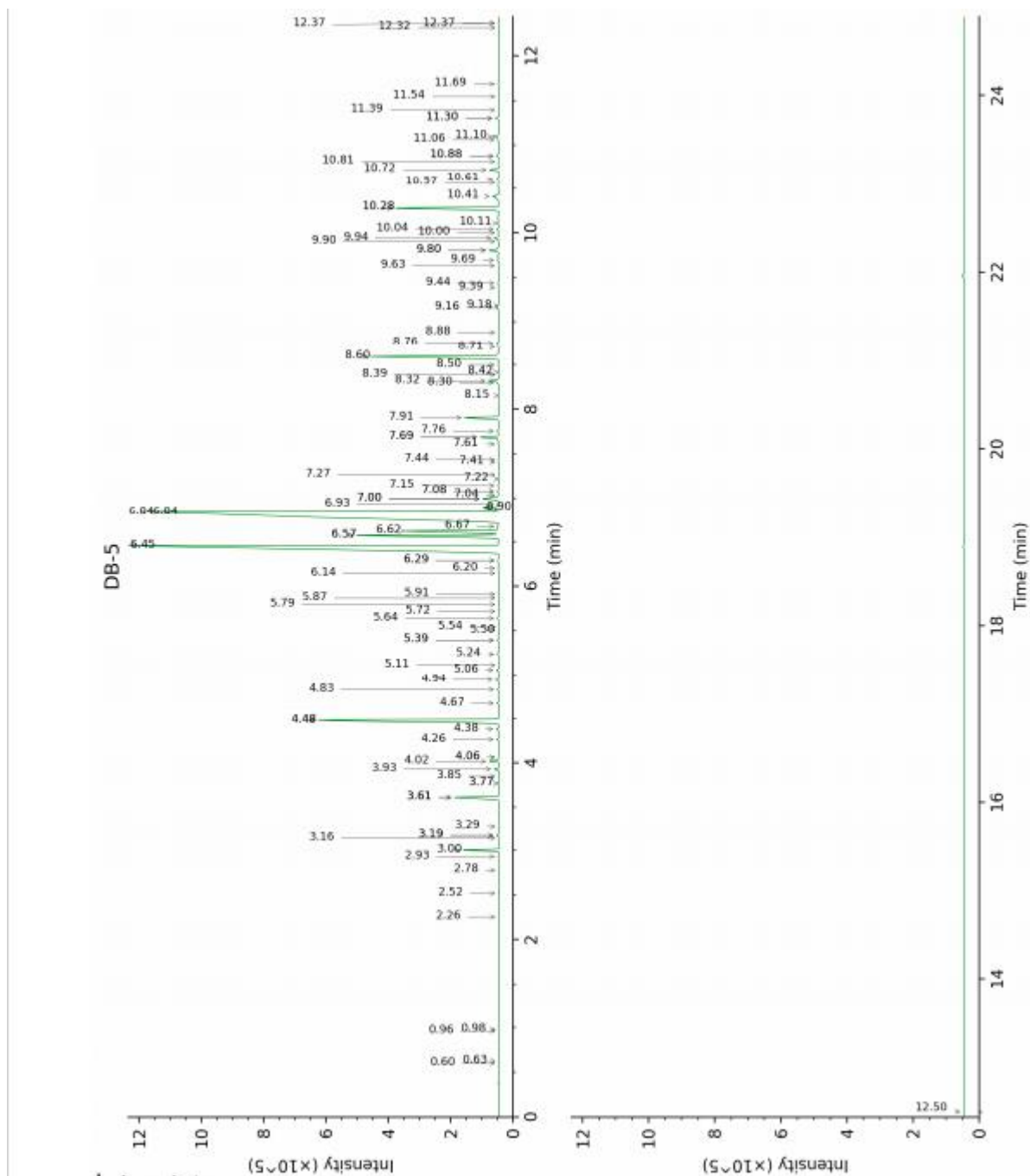


GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT SUPREME ESSENTIAL OIL – 11114

DATE: October 15, 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: PEPPERMINT SUPREME ESSENTIAL OIL – 11114

Peak	RT (min)	Compound name	%
1	0,60	ISOVALERAL	tr
2	0,63	2-METHYLBUTYRAL	tr
3	0,96	ISOAMYL ALCOHOL	tr
4	0,98	2-METHYLBUTANOL	tr
5	2,26	HEXANOL	tr
6	2,52	TRANS-2,5-DIETHYLTETRAHYDROFURAN	0,01
7	2,78	HASHISHENE	0,01
8	2,93	A-THUJENE	0,03
9	3,00	A-PINENE	0,86
10	3,16	TRANS-3-METHYLCYCLOHEXANOL	0,01
11	3,19*	CAMPHENE	0,07
12	3,19*	A-FENCHENE	[0,07]
13	3,19*	3-METHYLCYCLOHEXANONE	[0,07]
14	3,29	THUJA-2,4(10)-DIENE	0,01
15	3,61*	CIS-PARA-MENTHANE	1,56
16	3,61*	B-PINENE	[1,56]
17	3,61*	SABINENE	[1,56]
18	3,77*	CIS-CARANE	0,02
19	3,77*	OCTAN-3-ONE	[0,02]
20	3,85	TRANS-PARA-MENTHANE	0,01
21	3,93	MYRCENE	0,12
22	4,02	OCTAN-3-OL	0,26
23	4,06*	A-PHELLANDRENE	0,03
24	4,06*	PSEUDOLIMONENE	[0,03]
25	4,26	A-TERPINENE	0,06
26	4,38	PARA-CYMENE	0,09
27	4,48*	LIMONENE	7,76
28	4,48*	1,8-CINEOLE	[7,76]
29	4,67	(Z)-B-OCIMENE	0,05
30	4,82	(E)-B-OCIMENE	0,05

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT SUPREME ESSENTIAL OIL – 11114

Peak	RT (min)	Compound name	%
31	4,94	Γ-TERPINENE	0,09
32	5,06	CIS-SABINENE HYDRATE	0,07
33	5,11	CIS-LINALOOL OXIDE (FUR,)	0,01
34	5,24	OCTANOL	0,06
35	5,40*	TERPINOLENE	0,05
36	5,40*	PARA-CYMENENE	[0,05]
37	5,50	TRANS-SABINENE HYDRATE	0,02
38	5,54	NONAN-3-OL	0,01
39	5,64	LINALOOL	0,08
40	5,72	2-METHYLBUTYL 2-METHYLBUTYRATE	0,01
41	5,80	AMYL ISOVALERATE	0,01
42	5,87	OCTEN-3-YL ACETATE	0,01
43	5,91	CIS-PARA-MENTH-2-EN-1-OL	0,01
44	6,14	TRANS-PARA-MENTH-2-EN-1-OL	0,02
45	6,20	TRANS-SABINOL	0,05
46	6,29*	ISOPULEGOL	0,09
47	6,29*	CIS-A-DIHYDROTERPINEOL	[0,09]
48	6,45	MENTHONE	27,01
49	6,57*	ISOMENTHONE	5,22
50	6,57*	MENTHOFURAN	[5,22]
51	6,62	NEO-MENTHOL	3,40
52	6,67	Δ-TERPINEOL	0,07
53	6,84*	TERPINEN-4-OL	37,17
54	6,84*	MENTHOL	[37,17]
55	6,90	ISOMENTHOL	0,47
56	6,94	PARA-CYMEN-8-OL	0,06
57	7,00*†	A-TERPINEOL	0,67
58	7,00*†	MYRTENAL	[0,67]
59	7,00*†	NEOISO-MENTHOL	[0,67]
60	7,04	CIS-PIPERITOL	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT SUPREME ESSENTIAL OIL – 11114

Peak	RT (min)	Compound name	%
61	7,08*	METHYLCHAVICOL	0,07
62	7,08*	MYRTENOL	[0,07]
63	7,15	TRANS-ISOPIPERITENOL	0,04
64	7,22	UNKNOWN [M/Z 43, 99(84), 81 (46), 986 (43),126 (36), 71 (28),,, 170(12)]	0,02
65	7,27	TRANS-PIPERITOL	0,01
66	7,41	ISO-DIHYDROCARVEOL ?	0,01
67	7,44	TRANS-CARVEOL	0,03
68	7,61	CIS-CARVEOL	0,03
69	7,69*	CITRONELLOL	0,58
70	7,69*	PULEGONE	[0,58]
71	7,76	CARVONE	0,06
72	7,91	PIPERITONE	1,09
73	8,16	ISOPIPERITENONE	0,01
74	8,30	NEO-MENTHYL ACETATE	0,05
75	8,32	DECANOL	0,34
76	8,39	2-ETHYLMENTHONE?	0,01
77	8,42	BORNYL ACETATE	0,02
78	8,50	DIHYDROEDULAN I	0,04
79	8,60	MENTHYL ACETATE	4,72
80	8,71	THYMOL	0,03
81	8,76	ISOMENTHYL ACETATE	0,08
82	8,88	NEOISO-MENTHYL ACETATE?	0,02
83	9,16	BICYCLOELEMENE	0,11
84	9,18	PIPERITENONE	0,02
85	9,39	A-CUBEBENE	0,02
86	9,44	EUGENOL	0,04
87	9,63	A-YLANGENE	0,03
88	9,69	A-COPAENE	0,05
89	9,80*	B-BOURBONENE	0,34
90	9,80*	1,5-DIEPI-B-BOURBONENE	[0,34]

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT SUPREME ESSENTIAL OIL – 11114

Peak	RT (min)	Compound name	%
91	9,90	B-CUBEBENE	0,03
92	9,94	B-ELEMENE	0,16
93	10,00	UNKNOWN [M/Z 107,121 (79), 119 (66), 91(58), 136 (55), 105(49),,, 194 (1)]	0,04
94	10,04	UNKNOWN [M/Z 106,119 (99), 43 (78), 91(74), 105 (60), 134(55),,, 204 (19)]	0,08
95	10,11	ISOCARYOPHYLLENE	0,06
96	10,28*	B-YLANGENE	3,67
97	10,28*	B-CARYOPHYLLENE	[3,67]
98	10,41	B-COPAENE	0,21
99	10,57	TRANS-A-BERGAMOTENE	0,02
100	10,61	ISOGERMACRENE D	0,09
101	10,72	A-HUMULENE	0,31
102	10,82	ALLO-AROMADENDRENE	0,03
103	10,88*	(E)-B-FARNESENE	0,09
104	10,88*	9-EPI-B-CARYOPHYLLENE	[0,09]
105	11,06	Γ-MUUROLENE	0,05
106	11,10	GERMACRENE D	0,26
107	11,30*	BICYCLOGERMACRENE	0,12
108	11,30*	VIRIDIFLORENE	[0,12]
109	11,39	A-MUUROLENE	0,03
110	11,54	Γ-CADINENE	0,01
111	11,69	Δ-CADINENE	0,03
112	12,32	SPATHULENOL	0,01
113	12,37*	CARYOPHYLLENE OXIDE	0,03
114	12,37*	CARYOPHYLLENE OXIDE ISOMER	[0,03]
115	12,50	VIRIDIFLOROL	0,02
		TOTAL	98,93

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