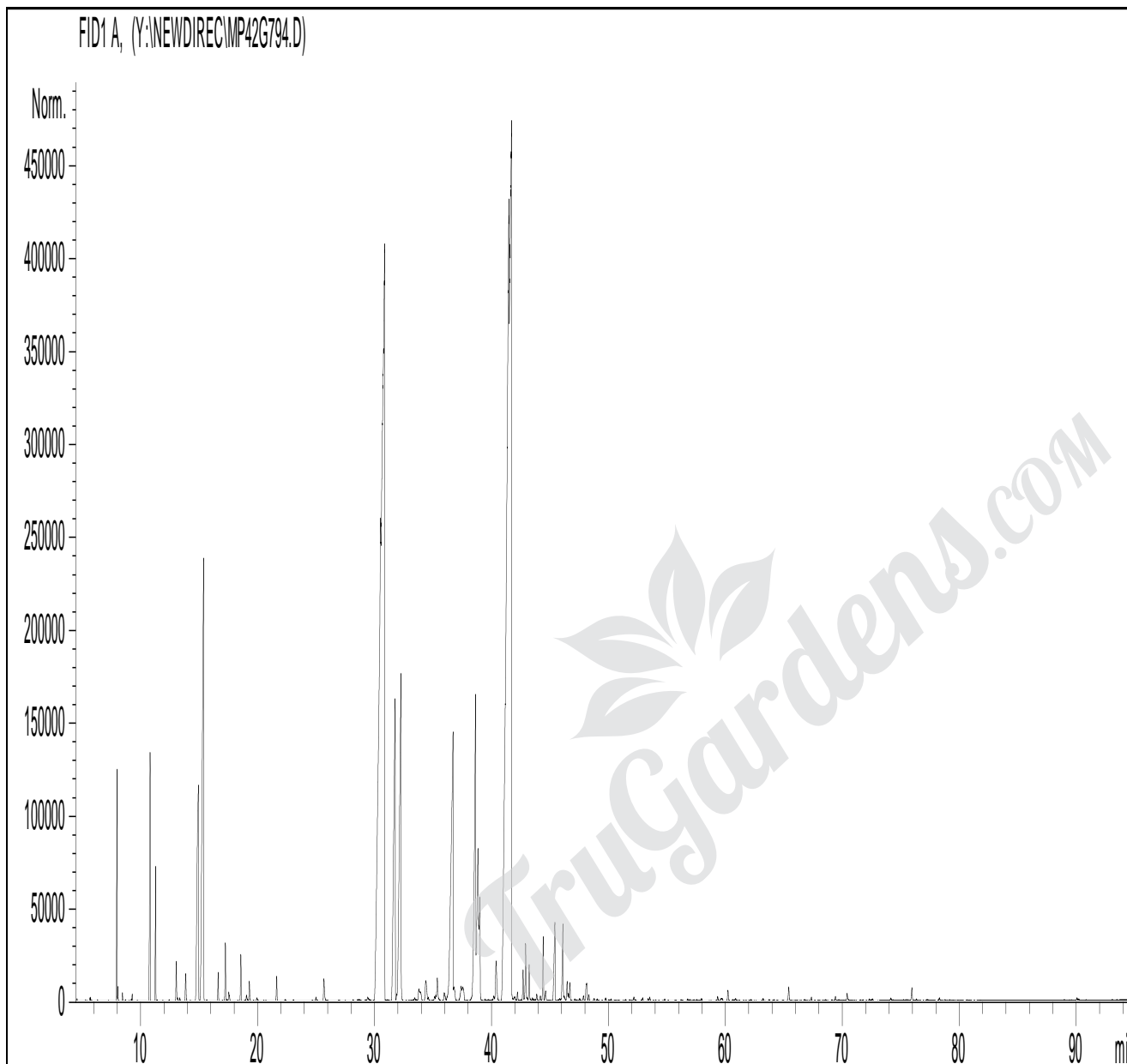


GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

DATE: September 29, 2016



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.

PRODUCT NAME: PEPPERMINT SUPREME ORGANIC ESSENTIAL OIL - 50055

Peak	RT (min)	Compound	%
1	4,6	ACETONE	0,01
2	5,6	2-METHYLBUTANAL	0,01
3	5,7	ETHANOL	0,01
4	7,9	α -PINENE	0,85
5	8,1	α -TUYENNE	0,04
6	8,4	TETRAHYDROFURAN-2,5-DIETHYL	0,03
7	8,7	ETHYL 2-METHYLBUTYRATE	0,01
8	9,2	p-MENTH-3-ENE	0,01
9	9,3	CAMPHENE	0,03
10	10,8	β -PINENE	1,37
11	11,2	SABINENE	0,60
12	11,4	PINADIENE	0,01
13	12,4	Δ 3-CARENE	0,01
14	13,0	β -MYRCENE	0,20
15	13,2	α -PHELLANDRENE	0,02
16	13,3	Ψ -LIMONENE	0,02
17	13,8	α -TERPINENE	0,17
18	14,2	2,3-DEHYDRO-1,8-CINEOLE	0,01
19	14,9	LIMONENE	2,70
20	15,4	1,8-CINEOLE	5,29
21	15,6	3-HEPTANONE, 2,6-DIMETHYL	0,01
22	16,6	Cis- β -OCIMENE	0,14
23	17,0	1-ETHYLPENTYL ACETATE	0,01
24	17,2	γ -TERPINENE	0,30
25	17,4	TERPENE ISOMER	0,01
26	17,5	Trans- β -OCIMENE	0,05
27	17,6	3-OCTANONE	0,02
28	18,3	3,8-p-MENTHADIENE	0,01
29	18,6	p-CYMENE	0,24
30	19,0	2-METHYLBUTYRATE DE 2-METHYLBUTYLE	0,05
31	19,3	TERPINOLENE	0,12
32	19,9	ISOAMYL ISOVALERATE	0,03
33	21,6	CYCLOHEXANONE 3-METHYL	0,14
34	22,3	3-OCTANOL ACETATE	0,01
35	23,1	1-HEXANOL	0,01

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Peak	RT (min)	Compound	%
36	24,6	ALLO-OCIMENE	0,01
37	24,8	3-HEXEN-1-OL	0,01
38	24,9	MYRTENYL METHYL ETHER	0,03
39	25,6	3-OCTANOL	0,19
40	28,5	α , p -DIMETHYLSTYRENE	0,01
41	28,7	LINALOOL Cis-OXIDE	0,03
42	29,2	β -THUYONE	0,01
43	29,4	1-OCTEN-3-OL	0,06
44	29,7	HEXYL 3-METHYLBUTYRATE	0,01
45	30,6	Trans-THUYANOL	0,50
46	30,8	MENTHONE	26,73
47	31,1	SESQUITERPENE	0,01
48	31,7	MENTHOFURAN	4,02
49	31,8	YLANGENE	0,03
50	32,2	ISOMENTHONE	4,43
51	34,4	α -COPAENE	0,04
52	33,2	COMPONENT Mw=152	0,01
53	33,4	α -BOURBONENE	0,03
54	33,5	COMPONENT Mw=152	0,01
55	33,8	β -BOURBONENE	0,24
56	34,4	NEOMENTHYLE ACETATE	0,27
57	34,6	α -GURJUNENE	0,03
58	35,1	p -MENTH-4-EN-3-ONE	0,04
59	35,2	Cis-THUYANOL	0,04
60	35,4	LINALOOL	0,21
61	35,5	PINOCAMPHONE	0,02
62	36,9	1-OCTANOL	0,04
63	37,0	LINALYL ACETATE	0,05
64	36,7	MENTHYL ACETATE	4,68
65	36,7	ISOPULEGOL	0,10
66	36,9	Cis-ISOPULEGONE	0,06
67	37,4	ϵ -CADINENE	0,16
68	37,5	ISOMENTHYL ACETATE	0,21
69	37,9	Trans-ISOPULEGONE	0,05
70	38,6	NEOMENTHOL	3,47

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71	38,8	TERPINENE-4-OL	0,84
72	39,0	β -CARYOPHYLLENE	2,00
73	39,4	AROMADENDRENE	0,02
74	40,2	MYRTENAL	0,06
75	40,4	NEOISOMENTHOL + Cis-p-MENTH-2-EN-1-OL	0,43
76	41,5	MENTHOL	31,53
77	41,7	PULEGONE	1,94
78	42,0	1-NONANOL	0,06
79	42,2	ALLO-AROMADENDRENE	0,06
80	42,7	ISOMENTHOL	0,19
81	42,9	δ -TERPINEOL + E- β -FARNESENE	0,45
82	43,2	α -HUMULENE	0,24
83	43,5	Cis-4,5-MUUROLADIENE	0,02
84	43,9	Z- β -FARNESENE	0,06
85	44,2	γ -MUUROLENE	0,04
86	44,4	α -TERPINEOL	0,41
87	44,6	BORNEOL + LEDENE	0,09
88	45,4	GERMACRENE D	0,73
89	45,8	CUBEBENE ISOMER	0,03
90	46,1	PIPERITONE	0,61
91	46,2	α -MUUROLENE	0,04
92	46,5	CARVONE	0,13
93	46,7	BICYCLOGERMACRENE	0,17
94	47,1	Trans-ISOPIPERITENOL	0,01
95	47,5	Cis-ANETHOL	0,02
96	47,9	1-DECANOL	0,04
97	48,0	CITRONELLOL	0,02
98	48,1	δ -CADINENE	0,18
99	48,3	γ -CADINENE	0,05
100	48,7	METHYL SALICYLATE	0,02
101	49,0	α -BISABOLENE	0,01
102	49,7	MYRTENOL	0,02
103	50,0	NEROL	0,01
104	50,2	α -AMORPHENE	0,01
105	52,2	Trans-CARVEOL + Trans-ANETHOL	0,04
106	52,9	CALAMENENE	0,02

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107	53,0	GERANIOL	0,01
108	53,4	p-CYMENE-8-OL	0,02
109	53,5	PERILLYL ACETATE	0,03
110	54,8	MYRCENOL	0,01
111	56,2	2-PHENYLETHYL ALCOHOL	0,01
112	56,8	PIPERITENONE	0,02
113	58,0	Trans-JASMONE	0,02
114	59,3	METHYL BENZENE PROPANAL	0,04
115	59,6	ISOCARYOPHYLLENE EPOXIDE	0,02
116	59,7	PHENYLETHYL ESTER	0,02
117	60,2	CARYOPHYLLENE EPOXIDE	0,08
118	60,9	PHENYLIC COMPONENT	0,02
119	63,2	NEROLIDOL	0,02
120	63,7	Cis-1,4-DIHYDROXY-p-MENTH-2-ENE	0,01
121	65,4	VIRIDIFLOROL	0,10
122	66,7	PHENOL, 3-ISOPROPYL-5-METHYL	0,01
123	67,3	SPATHULENOL	0,02
124	69,4	EUGENOL	0,03
125	70,4	THYMOL	0,06
126	72,3	β -NOOTKATOL	0,01
127	72,5	SESQUITERPENOL	0,01
128	72,6	α -CADINOL	0,01
129	74,1	PHENOL ETHER COMPONENT	0,02
130	75,9	MINT LACTONE	0,10
131	76,3	ALIPHATIC ALCOHOL	0,01
132	77,2	AROMATIC COMPONENT	0,01
133	78,2	MINT LACTONE ISOMER	0,02
134	90,1	DIISOCTYL MALEATE	0,02
135	90,2	AROMATIC COMPONENT Mw=276	0,01
		TOTAL	99,76

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