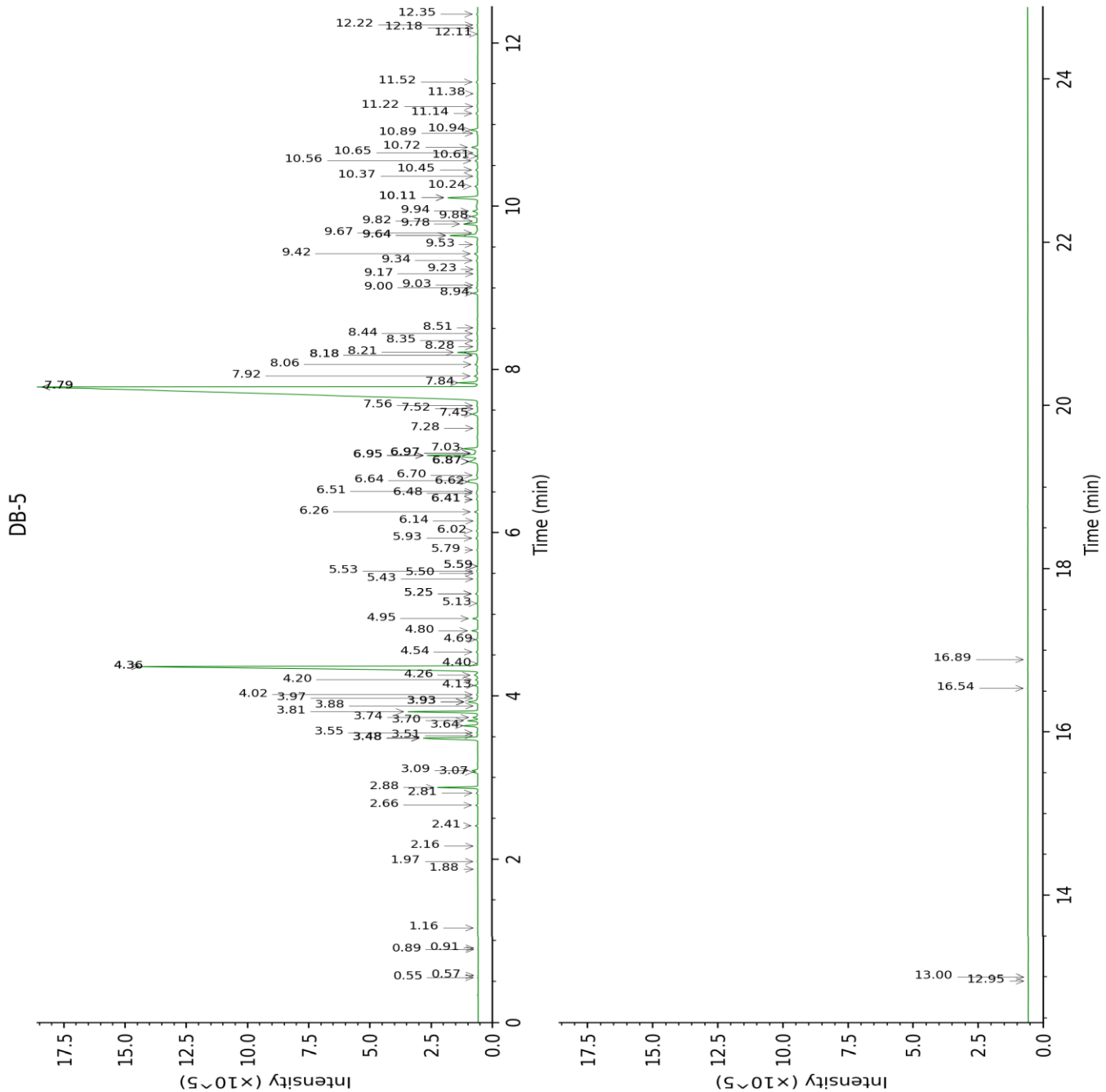


GCMS ANALYSIS

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL – 50022

DATE: March 10, 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: SPEARMINT ORGANIC ESSENTIAL OIL – 50022

Peak	RT (min)	Compound name	%
1	0,55	ISOVALERAL	0,01
2	0,58	2-METHYLBUTYRAL	tr
3	0,89	ISOAMYL ALCOHOL	tr
4	0,91	2-METHYLBUTANOL	tr
5	1,16	METHYL 2-METHYLBUTYRATE	tr
6	1,88	ETHYL 2-METHYLBUTYRATE	0,01
7	1,97	(3Z)-HEXENOL	0,01
8	2,16	HEXANOL	0,01
9	2,41	TRANS-2,5-DIETHYLTETRAHYDROFURAN	0,05
10	2,66	HASHISHENE	0,05
11	2,81	α -THUJENE	0,03
12	2,88	α -PINENE	1,00
13	3,07	TRANS-3-METHYLCYCLOHEXANOL	0,28
14	3,09	3-METHYLCYCLOHEXANONE	[0,28]
15	3,48*	β -PINENE	2,14
16	3,48*	SABINENE	[2,14]
17	3,48*	(2E)-3,7-DIMETHYLOCTENE	[2,14]
18	3,48*	CIS-PARA-MENTHANE	[2,14]
19	3,51	TRANS-PINANE	0,02
20	3,55	TRANS-2-PARA-MENTHENE	0,03
21	3,64	CIS-CARANE	0,44
22	3,70	TRANS-PARA-MENTHANE	0,28
23	3,74	OCTAN-3-ONE	0,17
24	3,81	MYRCENE	1,99
25	3,88	TRANS-CARANE?	0,01
26	3,93*	OCTAN-3-OL	0,38
27	3,93*	α -PHELLANDRENE	[0,38]
28	3,93*	PSEUDOLIMONENE	[0,38]
29	3,97	OCTANAL	0,02
30	4,02	Δ -3-CARENE	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL – 50022

Peak	RT (min)	Compound name	%
31	4,13	α -TERPINENE	0,10
32	4,20	CARVOMENTHENE	0,07
33	4,26	PARA-CYMENE	0,15
34	4,36*	LIMONENE	18,71
35	4,36*	1,8-CINEOLE	[18,71]
36	4,40	2-ETHYLHEXANOL	0,02
37	4,54	(Z)-B-OCIMENE	0,04
38	4,69	(E)-B-OCIMENE	0,05
39	4,80	γ -TERPINENE	0,18
40	4,95	CIS-SABINENE HYDRATE	0,15
41	5,13	OCTANOL	0,02
42	5,25*	TERPINOLENE	0,08
43	5,25*	PARA-CYMENENE	[0,08]
44	5,43	TRANS-SABINENE HYDRATE	0,02
45	5,50	ISOAMYL 2- METHYLBUTYRATE	0,01
46	5,53	LINALOOL	0,03
47	5,59*	NONANAL	0,03
48	5,59*	2-METHYLBUTYL 2- METHYLBUTYRATE	[0,03]
49	5,79	TRANS-PARA-MENTHA-2,8- DIEN-1-OL	0,03
50	5,93	OCTAN-3-YL ACETATE	0,06
51	6,02	CIS-PARA-MENTHA-2,8- DIEN-1-OL	0,05
52	6,14	ISOPULEGOL	0,01
53	6,26	MENTHONE	0,10
54	6,41*	MENTHOFURAN	0,05
55	6,41*	ISOMENTHONE	[0,05]
56	6,48	NEO-MENTHOL	0,06
57	6,51	δ -TERPINEOL	0,04
58	6,62	MENTHOL	0,64
59	6,64	TERPINEN-4-OL	[0,64]
60	6,70	ISOMENTHOL	0,08

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL – 50022

Peak	RT (min)	Compound name	%
61	6,87*	MYRTENAL	3,10
62	6,87*	α -TERPINEOL	[3,10]
63	6,87*	NEOISO-MENTHOL	[3,10]
64	6,95*	MYRTENOL	[3,10]
65	6,95*	UNKNOWN [M/Z 121, 67(75), 93 (64), 95 (52), 81(47), 41 (42),,,,]	[3,10]
66	6,95*	CIS-DIHYDROCARVONE	[3,10]
67	6,98*	DIHYDROCARVEOL	[3,10]
68	6,98*	METHYLCHAVICOL	[3,10]
69	6,98*	NEO-DIHYDROCARVEOL	[3,10]
70	7,03	TRANS-DIHYDROCARVONE	[3,10]
71	7,28	ISO-DIHYDROCARVEOL ?	0,01
72	7,45	TRANS-CARVEOL	0,23
73	7,52	CITRONELLOL	0,02
74	7,56	(3Z)-HEXENYL ISOVALERATE	0,05
75	7,79*	CIS-CARVEOL	61,95
76	7,79*	CARVONE	[61,95]
77	7,84	PIPERITONE	[61,95]
78	7,92	CIS-CARVONE OXIDE	0,14
79	8,06	ISOPIPERITENONE	0,11
80	8,18*	TRANS-CARVONE OXIDE	0,04
81	8,18*	NEO-MENTHYL ACETATE	[0,04]
82	8,21	DECANOL	0,67
83	8,28	2-ETHYLMENTHONE?	0,02
84	8,35	DIHYDROEDULAN I	0,03
85	8,44	MENTHYL ACETATE	0,04
86	8,51	DIHYDROEDULAN II	0,02
87	8,94	DIHYDROCARVYL ACETATE	0,15
88	9,00	BICYCLOELEMENE	0,05
89	9,03	TRANS-CARVYL ACETATE	0,02
90	9,17	α -CUBEBENE	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL – 50022

Peak	RT (min)	Compound name	%
91	9,23	EVODONE	0,01
92	9,34	ISO-DIHYDROCARVYL ACETATE	0,08
93	9,42	C/S-CARVYL ACETATE	0,13
94	9,53	α-COPAENE	0,03
95	9,64*	β-BOURBONENE	1,02
96	9,64*	1,5-DIEPI-B-BOURBONENE	[1,02]
97	9,67	C/S-β-ELEMENE	0,07
98	9,78	β-ELEMENE	0,50
99	9,82	(Z)-JASMONE	0,04
100	9,88	LONGIFOLENE	0,26
101	9,94	ISOCARYOPHYLLENE	0,18
102	10,11*	B-YLANGENE	1,16
103	10,11*	B-CARYOPHYLLENE	[1,16]
104	10,24	B-COPAENE	0,09
105	10,37	AROMADENDRENE	0,03
106	10,45	ISOGERMACRENE D	0,07
107	10,56	A-HUMULENE	0,09
108	10,61	E-MUUROLENE?	0,01
109	10,66	ALLO-AROMADENDRENE	0,02
110	10,72	(E)-B-FARNESENE	0,23
111	10,89	Γ-MUUROLENE	0,04
112	10,94	GERMACRENE D	0,25
113	11,14	BICYCLOGERMACRENE	0,07
114	11,22	α-MUUROLENE	0,04
115	11,38	γ-CADINENE	0,02
116	11,52	δ-CADINENE	0,06
117	12,11	(E)-NEROLIDOL	0,01
118	12,18	SPATHULENOL	0,01
119	12,22	CARYOPHYLLENE OXIDE	0,03
120	12,35	VIRIDIFLOROL	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL – 50022

Peak	RT (min)	Compound name	%
121	12,95	ISOSPATHULENOL	0,01
122	13,00	T-MUUROLOL	0,01
123	16,54	META-CAMPHORENE	0,01
124	16,89	PARA-CAMPHORENE	0,01
		TOTAL	99,02%

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