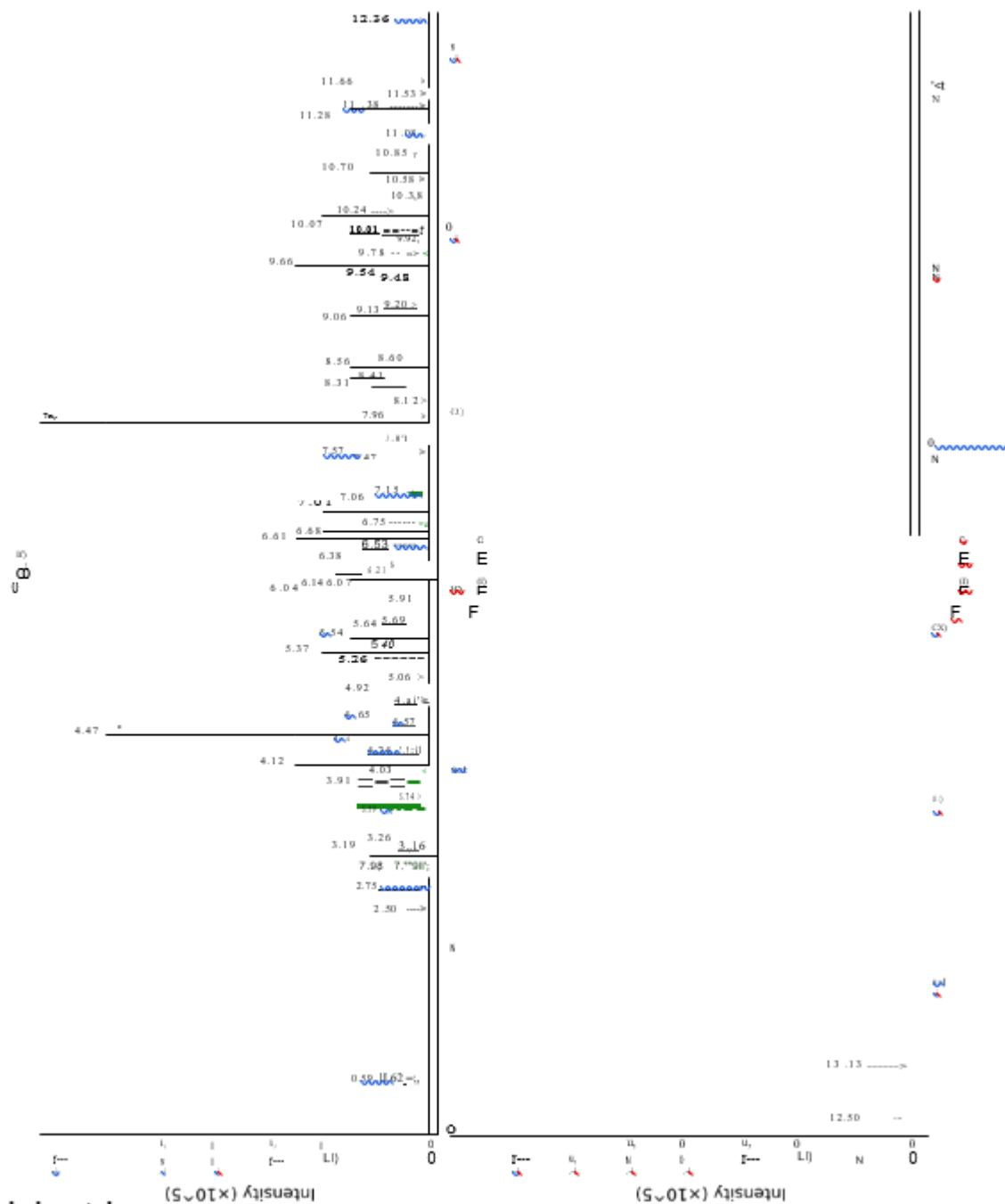


GCMS ANALYSIS

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) - 11310

DATE: January 11, 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,

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) - 11310

Peak	RT (min)	Compound	%
1	0,59	Isovaleral	tr
2	0,62	2-Methylbutyral	tr
3	2,50	trans-2,5-Diethyltetrahydrofuran	0,03
4	2,75	Hashishene	0,04
5	2,90	α -Thujene	0,03
6	2,98	α -Pinene	1,14
7	3,16†	3-Methylcyclohexanone	0,10
8	3,19*†	Camphene	[0,10]
9	3,19*†	α -Fenchene	[0,10]
10	3,26	Thuja-2,4(10)-diene	0,01
11	3,59*	Sabinene	1,75
12	3,59*	β -Pinene	[1,75]
13	3,74	Octen-3-ol	0,01
14	3,84	Octan-3-one	0,02
15	3,91	Myrcene	0,56
16	4,03*	α -Phellandrene	0,32
17	4,03*	Octan-3-ol	[0,32]
18	4,03*	Pseudolimonene	[0,32]
19	4,12	Δ 3-Carene	0,01
20	4,24	α -Terpinene	0,05
21	4,31	Carvomenthene	0,02
22	4,37	para-Cymene	0,22
23	4,48*	Limonene	22,64
24	4,48*	β -Phellandrene	[22,64]
25	4,48*	1,8-Cineole	[22,64]
26	4,57	2-Ethylhexanol	0,05
27	4,65	(Z)- β -Ocimene	0,04
28	4,81	(E)- β -Ocimene	0,04
29	4,92	γ -Terpinene	0,08
30	5,06	cis-Sabinene hydrate	0,08

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) - 11310

Peak	RT (min)	Compound	%
31	5,26	Octanol	0,02
32	5,37	Terpinolene	0,04
33	5,40	para-Cymenene	0,02
34	5,54	trans-Sabinene hydrate	0,01
35	5,64	Linalool	0,02
36	5,69	Nonanal	0,01
37	5,91	trans-para-Mentha-2,8-dien-1-ol	0,03
38	6,04	Octan-3-yl acetate	0,03
39	6,07	cis-Limonene oxide	0,01
40	6,14	cis-para-Mentha-2,8-dien-1-ol	0,04
41	6,20	Camphor	0,01
42	6,26	Isopulegol	0,02
43	6,38	Menthone	0,22
44	6,53*	Isomenthone	0,12
45	6,53*	Menthofuran	[0,12]
46	6,61	neo-Menthol	0,09
47	6,68	δ-Terpineol	0,01
48	6,75*	Terpinen-4-ol	1,26
49	6,75*	Menthol	[1,26]
50	7,01	α-Terpineol	0,10
51	7,06*	cis-Dihydrocarvone	0,78
52	7,06*	neo-Dihydrocarveol	[0,78]
53	7,15*	trans-Dihydrocarvone	0,30
54	7,15*	Dihydrocarveol	[0,30]
55	7,40	iso-Dihydrocarveol ?	0,01
56	7,47	trans-Carveol	0,01
57	7,57	cis-Carveol	0,13
58	7,69	Pulegone	0,03
59	7,91*†	Carvone	66,20
60	7,91*†	Piperitone	[66,20]

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) - 11310

Peak	RT (min)	Compound	%
61	7,96†	cis-Carvone oxide	[66,20]
62	8,12	Isopiperitenone	0,02
63	8,31	trans-Carvone oxide	0,02
64	8,34	Decanol	0,03
65	8,41	Dihydroedulan I	0,01
66	8,56	Menthyl acetate	0,05
67	8,60	Dihydroedulan II	0,01
68	9,06	Dihydrocarvyl acetate	0,06
69	9,13	Bicycloelemene	0,01
70	9,20	trans-Carvyl acetate	0,01
71	9,48	iso-Dihydrocarvyl acetate	0,04
72	9,54	cis-Carvyl acetate	0,07
73	9,66	α -Copaene	0,03
74	9,78*	β -Bourbonene	0,35
75	9,78*	1,5-diepi- β -Bourbonene	[0,35]
76	9,92	β -Elemene	0,05
77	10,01	(Z)-Jasmone	0,03
78	10,07	Unknown [m/z 106,119 (99), 43 (78), 91(74), 105 (60), 134(55),,, 204 (19)]	0,01
79	10,24*	β -Caryophyllene	1,27
80	10,24*	β -Ylangene	[1,27]
81	10,38	β -Copaene	0,05
82	10,58	Isogermacrene D	0,04
83	10,70	α -Humulene	0,05
84	10,85	(E)- β -Farnesene	0,15
85	11,08	Germacrene D	0,18
86	11,28	Viridiflorene	0,03
87	11,38	α -Muurolene	0,02
88	11,53	γ -Cadinene	0,01
89	11,66	δ -Cadinene	0,03
90	12,36*	Caryophyllene oxide	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) - 11310

Peak	RT (min)	Compound	%
91	12,36*	Caryophyllene oxide isomer	[0,04]
92	12,50	Viridiflorol	0,03
93	13,13	τ-Cadinol	0,01
		TOTAL	99,46

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