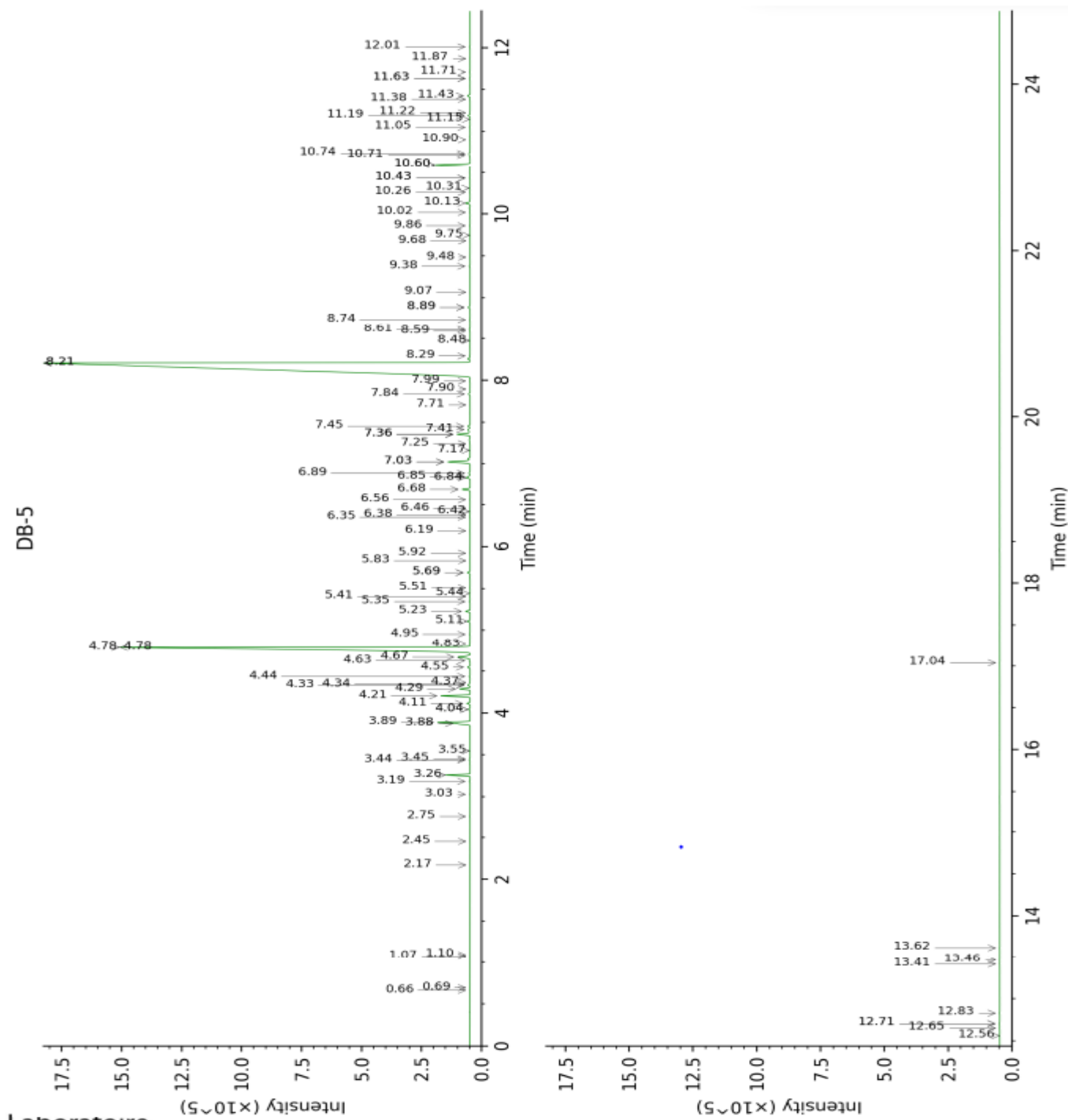


GCMS ANALYSIS

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

DATE: October 3, 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 65% ESSENTIAL OIL (INDIA) – 11310

Peak	RT (min)	Compound	%
1	0.66	Isovaleral	tr
2	0.70	2-Methylbutyral	tr
3	1.08	Isoamyl alcohol	tr
4	1.10	2-Methylbutanol	tr
5	2.17	(2E)-Hexenal	tr
6	2.45	Hexanol	tr
7	2.75	<i>trans</i> -2,5-Diethyltetrahydrofuran	0.01
8	3.03	Hashishene	0.02
9	3.18	α -Thujene	0.03
10	3.26	α -Pinene	0.71
11	3.44t	3-Methylcyclohexanone	0.05
12	3.45t	Camphene	[0.05]
13	3.55	Thuja-2,4(10)-diene	0.01
14	3.88t	Sabinene	1.34
15	3.89t	-Pinene	[1.34]
16	4.04*	cis-Carane	0.07
17	4.04*	Octen-3-one	[0.07]
18	4.11	Octan-3-one	0.11
19	4.20	Myrcene	0.92
20	4.29	Octan-3-ol	0.34
21	4.33	α -Phellandrene	0.07
22	4.34	Pseudolimonene	0.04
23	4.37	Octanal	0.02
24	4.44	L'-3-Carene	0.04
25	4.55	α -Terpinene	0.09
26	4.63	Carvomenthene	0.04
27	4.67	para-Cymene	0.58
28	4.78*	Limonene	21.24
29	4.78*	1,8-Cineole	[21.24]
30	4.83	2-Ethylhexanol	0.02

Disclaimer & Caution:

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GCMS ANALYSIS (cont'd,)

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

Peak	RT (min)	Compound	%
31	4.95	(Z)- -Ocimene	0.03
32	5.11	(f)- -Ocimene	0.09
33	5.23	γ-Terpinene	0.15
34	5.35	cis-Sabinene hydrate	0.03
35	5.41	para-Mentha-3,8-diene	0.02
36	5.44	cis-Linalool oxide (fur.)	0.01
37	5.51	Octanol	0.02
38	5.69*	Terpinolene	0.10
39	5.69*	para-Cymenene	[0.10]
40	5.83	trans-Sabinenehydrate	0.01
41	5.92	Linalool	0.02
42	6.19	trans-para-Mentha-2,8dien-1-ol	0.01
43	6.35	Octan-3-yl acetate	0.02
44	6.38	cis-Limonene oxide	0.01
45	6.42	cis-para-Mentha-2,8- dien-1-ol	0.02
46	6.46	Camphor	0.01
47	6.56	Isopulegol	0.02
48	6.68	Menthone	0.27
49	6.84	Isomenthone	0.14
50	6.85	Menthofuran	0.04
51	6.89	nee-Menthol	0.06
52	7.03*t	Menthol	1.02
53	7.03*t	Terpinen-4-ol	[1.02]
54	7.17	Isomenthol	0.01
55	7.25	α-Terpineol	0.01
56	7.36*	cis-Piperitol	0.50
57	7.36*	neo-Dihydrocarveol	[0.50]
58	7.36*	cis-Dihydrocarvone	[0.50]
59	7.41	Dihydrocarveol	0.13
60	7.45	trans-Di hydrocarvone	0.09

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GCMS ANALYSIS (cont'd,)

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

Peak	RT (min)	Compound	%
61	7.71	iso-Dihydrocarveol ?	0.01
62	7.84	trans-Carveol	0.07
63	7.90	cis-Carveol	0.02
64	7.99	Pulegone	0.03
65	8.21*	Piperitone	68.03
66	8.21*	Carvone	[68.03]
67	8.29	cis-Carvone oxide	0.03
68	8.48	Isopiperitenone	0.01
69	8.59	trans-Carvone oxide	0.01
70	8.61	Decanol	0.04
71	8.74	Dihydroedulan I	0.02
72	8.89*	Menthyl acetate	0.08
73	8.89*	Dihydroedulan II	[0.08]
74	9.07	Isomenthyl acetate	0.01
75	9.38	Dihydrocarvyl acetate	0.04
76	9.48	trans-Carvyl acetate	0.01
77	9.68	a-Cubebene	0.01
78	9.75	iso-Dihydrocarvylacetate	0.01
79	9.86	cis-Carvyl acetate	0.03
80	10.02	a-Copaene	0.03
81	10.13	-Bourbonene	0.18
82	10.26	-Elemene	0.03
83	10.31	(Z)-Jasmone	0.02
84	10.43*	Unknown [m/z 106, 119 (99), 43 (78), 91(74), 105 (60), 134 (55)... 204 (19)]	0.05
85	10.43*	Isocaryophyllene	[0.05]
86	10.60*	-Ylangene	1.36
87	10.60*	-Caryophyllene	[1.36]
88	10.72	-Copaene	0.04
89	10.74	Unknown [m/z 177, 109 (32), 192 (26), 95 (25), 137 (23)]	0.05
90	10.90	Isogermacrene D	0.02

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GCMS ANALYSIS (cont'd,)

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

Peak	RT (min)	Compound	%
91	11.05	α -Humulene	0.04
92	11.15	allo-Aromadendrene	0.01
93	11.19	(f)- β -Farnesene	0.07
94	11.22	Unknown [m/z 161, 105 (56), 91 (SO), 93(36), 119 (33), 79 (31)...204 (S)]	0.02
95	11.38	γ -Muurokene	0.02
96	11.43	Germacrene D	0.10
97	11.63*	Bicyclogermacrene	0.04
98	11.63*	Viridiflorene	(0.04]
99	11.71	α -Muurokene	0.03
100	11.87	γ -Cadinene	0.01
101	12.01	6-Cadinene	0.04
102	12.56	(f)-Nerolidol	0.01
103	12.65	Spathulenol	0.01
104	12.70*	Caryophyllene oxide	0.03
105	12.70*	Caryophyllene oxide isomer	[0.03]
106	12.83	Viridiflorol	0.02
107	13.41	Isospathulenol	0.01
108	13.46	t-Cadinol	0.01
109	13.62	α -Cadinol	0.01
110	17.04	meta-Camphorene	0.01
		Total identified	99.22%
		Total reported	99.29%

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

t: Peaks apexes were resolved, but peaks overlapped and were summed for analysis tr: The compound has been detected below 0.005% of total signal.

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