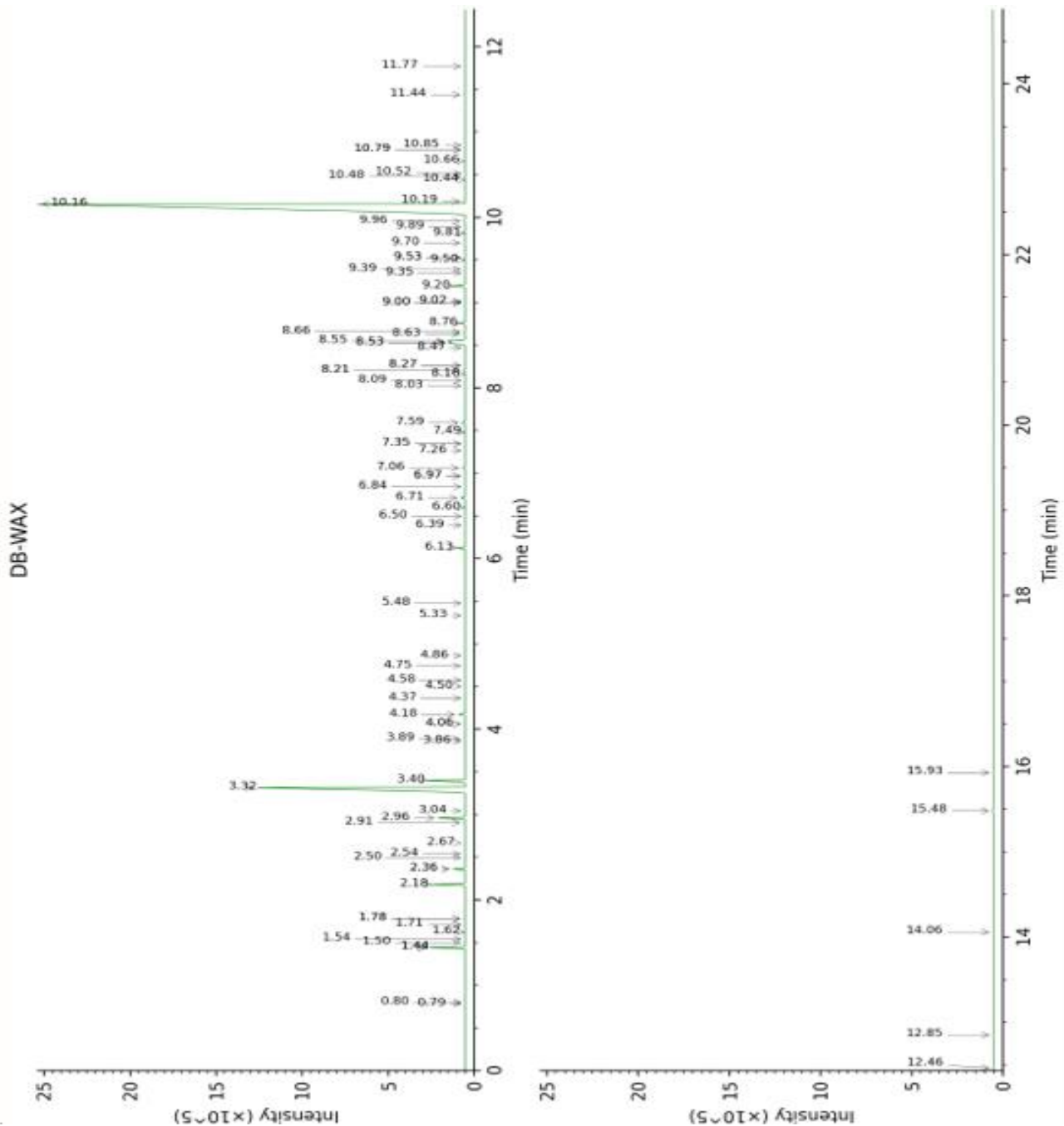


GCMS ANALYSIS

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) – 11310
 DATE: 9 May 2024



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	0,80	Isovaleral	tr
2	0,78	2-Methylbutyral	tr
3	5,48	Hexanol	0,02
4	1,62	<i>trans</i> -2,5-Diethyltetrahydrofuran	0,03
5		3-Heptanol	
6	1,78*	Unknown FRAG XC [m/z 69, 93 (91), 41(88), 79 (22), 40 (20),91(17),,,]	[0,04]
7	1,44*	Hashishene	[1,17]
8	1,50	α -Thujene	0,03
9	1,44*	α -Pinene	[1,17]
10	1,71	α -Fenchene	0,01
11	1,78*	Camphene	[0,04]
12	4,74	3-Methylcyclohexanone	0,04
13	2,36*	Thuja-2,4(10)-diene	[0,47]
14		Unknown BOSE VIII [m/z 121, 93 (86), 79(71), 67 (62), 55 (49),,,136 (24)]	
15		Unknown FRAG XCIV [m/z 93, 79 (62), 121(37), 67 (35), 107 (34),91 (33),,,]	
16	1,44*	<i>cis-para</i> -Menthane	[1,17]
17	2,18	β -Pinene	1,30
18	2,36*	Sabinene	[0,47]
19	4,58	Octen-3-one	0,01
20	6,84	Octen-3-ol	0,01
21	4,06*	Octan-3-one	[0,04]
22	1,54	<i>trans-para</i> -Menthane	tr
23	2,96	Myrcene	1,12
24	2,50	2-Carene	0,02
25	6,13	Octan-3-ol	0,38
26	4,50	Octanal	tr
27	2,91	α -Phellandrene	0,07
28	2,67	Δ^3 -Carene	0,01
29	3,04	α -Terpinene	0,03
30	2,54	Carvomenthene	0,05

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GCMS ANALYSIS (cont'd,)

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

Peak	RT (min)	Compound	%
31	4,18	<i>para</i> -Cymene	0,31
32	3,32	Limonene	17,84
33	3,40	1,8-Cineole	1,70
34	7,35*	2-Ethylhexanol	[0,02]
35	3,86	(<i>Z</i>)- β -Ocimene	0,02
36	4,06*	(<i>E</i>)- β -Ocimene	[0,04]
37	3,89	γ -Terpinene	0,07
38	6,97*	<i>cis</i> -Sabinene hydrate	[0,04]
39	6,60	<i>cis</i> -Linalool oxide (fur.)	0,01
40	8,27*	Octanol	[0,05]
41	6,39	<i>para</i> -Cymenene	0,01
42	4,37	Terpinolene	0,03
43	8,03	<i>trans</i> -Sabinenehydrate	0,01
44	8,16	Linalool	0,01
45	4,86	Isoamyl isovalerate	tr
46	9,02*	<i>trans-para</i> -Mentha-2,8-dien-1-ol	[0,02]
47	5,33	Octan-3-yl acetate	0,02
48	6,50	<i>cis</i> -Limonene oxide	0,01
49	9,50*†	<i>cis-para</i> -Mentha-2,8-dien-1-ol	[0,03]
50	8,21*	Isopulegol	[0,09]
51	6,71	Menthone	0,21
52	6,97*	Menthofuran	[0,04]
53	7,06	Isomenthone	0,13
54	8,66	neo-Menthol	0,06
55	9,81	Borneol	0,04
56	9,20	Menthol	0,62
57	8,64	Terpinen-4-ol	0,07
58	9,00*	Isomenthol	[0,02]
59	8,55	<i>cis</i> -Dihydrocarvone	0,83
60	9,53*†	neiso-Menthol	[0,05]

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GCMS ANALYSIS (cont'd,)

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

Peak	RT (min)	Compound	%
61	10,84	Myrtenol	0,01
62	10,19	neo-Dihydrocarveol	0,08
63	10,44	trans-Isopiperitenol	0,01
64	9,39	Methylchavicol	0,05
65	10,48	Dihydrocarveol	0,07
66	8,76	trans-Dihydrocarvone	0,23
67	7,35*	Decanal	[0,02]
68	10,79*	iso-Dihydrocarveol ?	[0,03]
69	11,44	trans-Carveol	0,07
70	9,00*	Pulegone	[0,02]
71	11,77	cis-Carveol	0,03
72	10,16	Carvone	69,91
73	9,96	Piperitone	0,16
74	10,79*	Decanol	[0,03]
75	8,21*	Menthyl acetate	[0,09]
76	9,53*†	Dihydrocarvyl acetate	[0,05]
77	10,66	cis-Carvyl acetate	0,03
78	7,26	α-Copaene	0,01
79	7,59	β-Bourbonene	0,17
80	7,48	1,5-diepi-β-Bourbonene	0,02
81	8,53*	β-Elemene	[1,16]
82	12,46	(Z)-Jasmone	0,02
83	8,09	Longifolene	0,01
84	8,27*	Isocaryophyllene	[0,05]
85	8,53*	β-Caryophyllene	[1,16]
86	8,47	β-Copaene	0,02
87	9,02*	Isogermacrene D	[0,02]
88	9,35	α-Humulene	0,01
89	9,70	(E)-β-Farnesene	0,08
90	9,89	Germacrene D	0,05

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GCMS ANALYSIS (cont'd,)

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

Peak	RT (min)	Compound	%
91	10,52	δ -Cadinene	0,01
92	12,85	Caryophyllene oxide	0,02
93	14,06	Viridiflorol	0,02
94	15,48	<i>meta</i> -Camphorene	0,05
95	15,93	<i>para</i> -Camphorene	0,02
		Total reported	99,52%

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