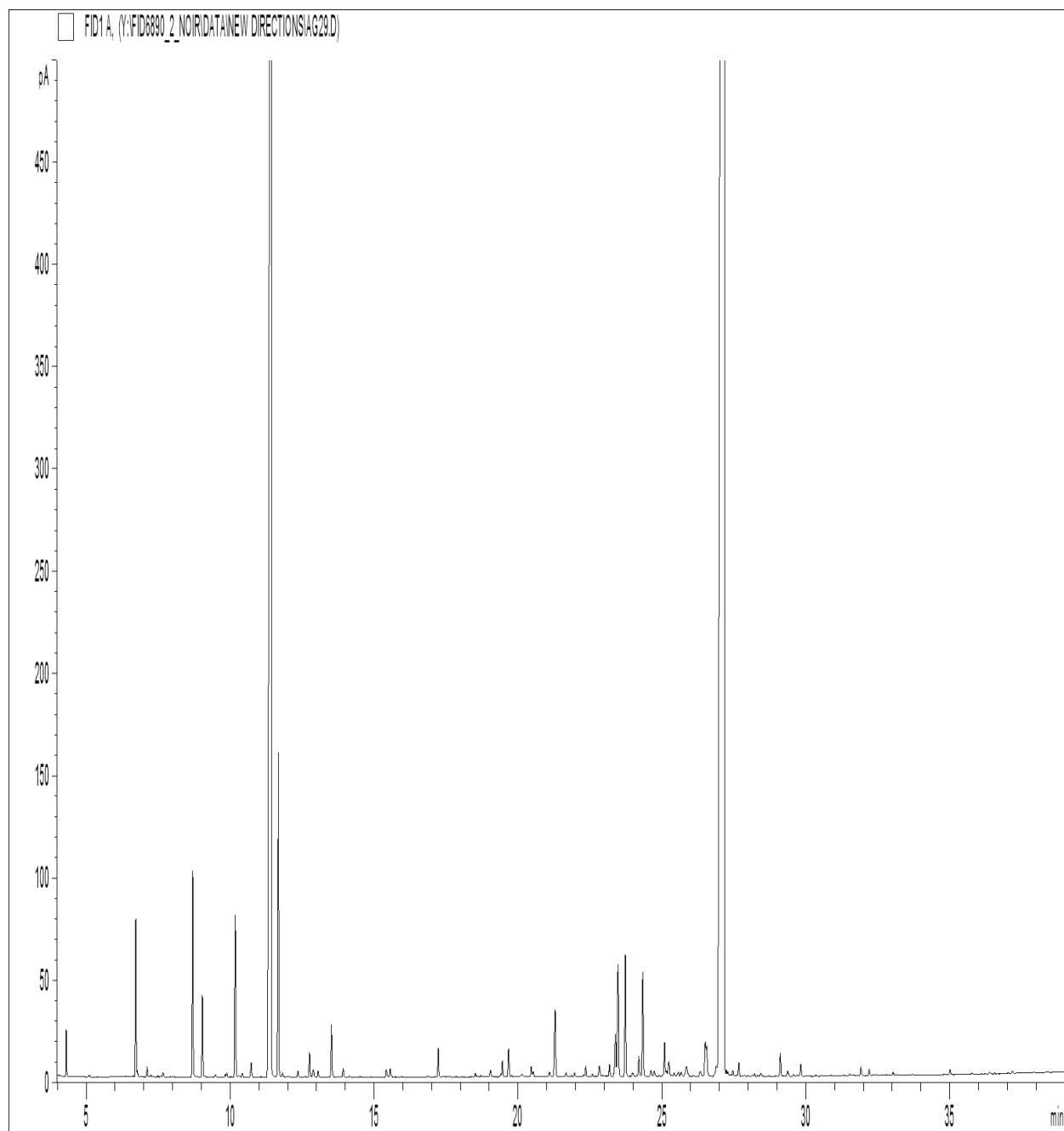


GCMS ANALYSIS

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

DATE: December 2, 2019



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% (INDIA) ESSENTIAL OIL - 11310

Peak	RT (min)	Compound name	%
1	4,30	ACETONE	0,17
2	6,72	alpha-PINENE	0,75
3	6,78	alpha-THUYENE	0,03
4	7,12	FURAN, 2,5-DIETHYLTETRAHYDRO-	0,05
5	7,24	METHYL METHYLETHENYL CYCLOHEXANE ISOMER	0,01
6	7,67	CAMPHENE	0,02
7	8,70	beta-PINENE	1,10
8	9,03	SABINENE	0,42
9	9,50	p-MENTH-2-ENE	0,02
10	9,83	delta3-CARENE	0,01
11	9,88	OCTANE, 1-METHOXY-	0,02
12	10,18	beta-MYRCENE	0,85
13	10,30	alpha-PHELLANDRENE	0,01
14	10,42	psi-LIMONENE	0,02
15	10,73	alpha-TERPINENE	0,09
16	11,42	LIMONENE	20,22
17	11,67	1,8-CINEOLE	1,75
18	11,81	1,3,8-p-MENTHATRIENE	0,02
19	12,35	cis-beta-OCIMENE	0,04
20	12,75	gamma-TERPINENE	0,14
21	12,89	trans-beta-OCIMENE	0,05
22	13,05	3-OCTANONE	0,03
23	13,52	p-CYMENE	0,28
24	13,92	TERPINOLENE	0,05
25	14,14	ALIPHATIC ALCOHOL	0,01
26	15,42	CYCLOHEXANONE, 3-METHYL	0,05
27	15,56	3-OCTYL ACETATE	0,05
28	16,88	3-HEXEN-1-OL	0,01
29	17,22	3-OCTANOL	0,16
30	18,52	CYCLOHEXANOL, 3-METHYL	0,02

GCMS ANALYSIS (cont'd.)

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

Peak	RT (min)	Compound name	%
31	18,71	alpha-p-DIMETHYLSTYRENE	0,01
32	19,04	ALIPHATIC ESTER	0,05
33	19,39	LIMONENE trans-EPOXIDE	0,01
34	19,45	trans-THUYANOL	0,10
35	19,67	MENTHONE	0,17
36	20,10	MENTHOFURAN	0,01
37	20,14	cis-HEXENYL VALERATE	0,02
38	20,46	ISOMENTHONE	0,06
39	20,52	alpha-COPAENE	0,04
40	21,09	alpha-BOURBONENE	0,04
41	21,28	beta-BOURBONENE	0,46
42	21,66	LINALOOL	0,03
43	21,96	1-OCTANOL	0,03
44	22,27	trans-p-MENTH-2-EN-1-OL	0,01
45	22,35	NEOMENTHOL	0,06
46	22,82	epsilon-CADINENE	0,08
47	23,18	MENTHYL ACETATE + SESQUITERPENE	0,08
48	23,38	TERPINENE-4-OL	0,29
49	23,47	beta-CARYOPHYLLENE	0,82
50	23,72	cis-DIHYDROCARVONE	0,75
51	23,98	cis-p-2,8-MENTHADIEN-1-OL	0,04
52	24,19	trans-DIHYDROCARVONE	0,14
53	24,33	MENTHOL	0,64
54	24,62	GERMACRENE A	0,05
55	24,74	trans-PINOCARVEOL	0,04
56	25,09	E-beta-FARNESENE	0,21
57	25,15	AROMATIC COMPOUND	0,04
58	25,24	Trans-DIHYDROCARVYL ACETATE	0,12
59	25,33	SESQUITERPENE	0,01
60	25,42	alpha-HUMULENE	0,03

GCMS ANALYSIS (cont'd.)

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

Peak	RT (min)	Compound name	%
61	25,58	CARVOTANACETONE	0,05
62	25,66	cis-4,5-MUUROLADIENE	0,03
63	25,86	alpha-TERPINEOL	0,13
64	26,33	BORNEOL	0,05
65	26,51	GERMACRENE D	0,25
66	26,55	SESQUITERPENE	0,19
67	26,89	PIPERITONE	0,10
68	27,16	CARVONE	67,53
69	27,23	SESQUITERPENIC EPOXIDE	0,03
70	27,29	1-DECANOL	0,03
71	27,40	2,4-DIMETHYLPHENYLIC ALCOHOL	0,01
72	27,46	delta-CADINENE	0,04
73	27,60	SESQUITERPENE	0,01
74	27,67	cis-CARVYL ACETATE	0,08
75	28,21	trans-p-MENTHA-1,8-DIEN-2-OL	0,02
76	28,43	CAMPHOLENIC ALCOHOL	0,03
77	29,11	trans-CARVEOL	0,14
78	29,37	CARVONE OXIDE	0,04
79	29,57	ISOPIPERITENONE	0,01
80	29,82	cis-CARVEOL	0,08
81	31,52	PIPERITENONE	0,01
82	31,91	cis-JASMONE	0,05
83	32,20	PIPERITENONE OXIDE	0,04
84	33,03	CARYOPHYLLENE EPOXIDE	0,02
85	35,01	VIRIDIFLOROL	0,03
86	36,39	SPATHULENOL	0,02
87	37,17	EUGENOL	0,02
		TOTAL	99,96