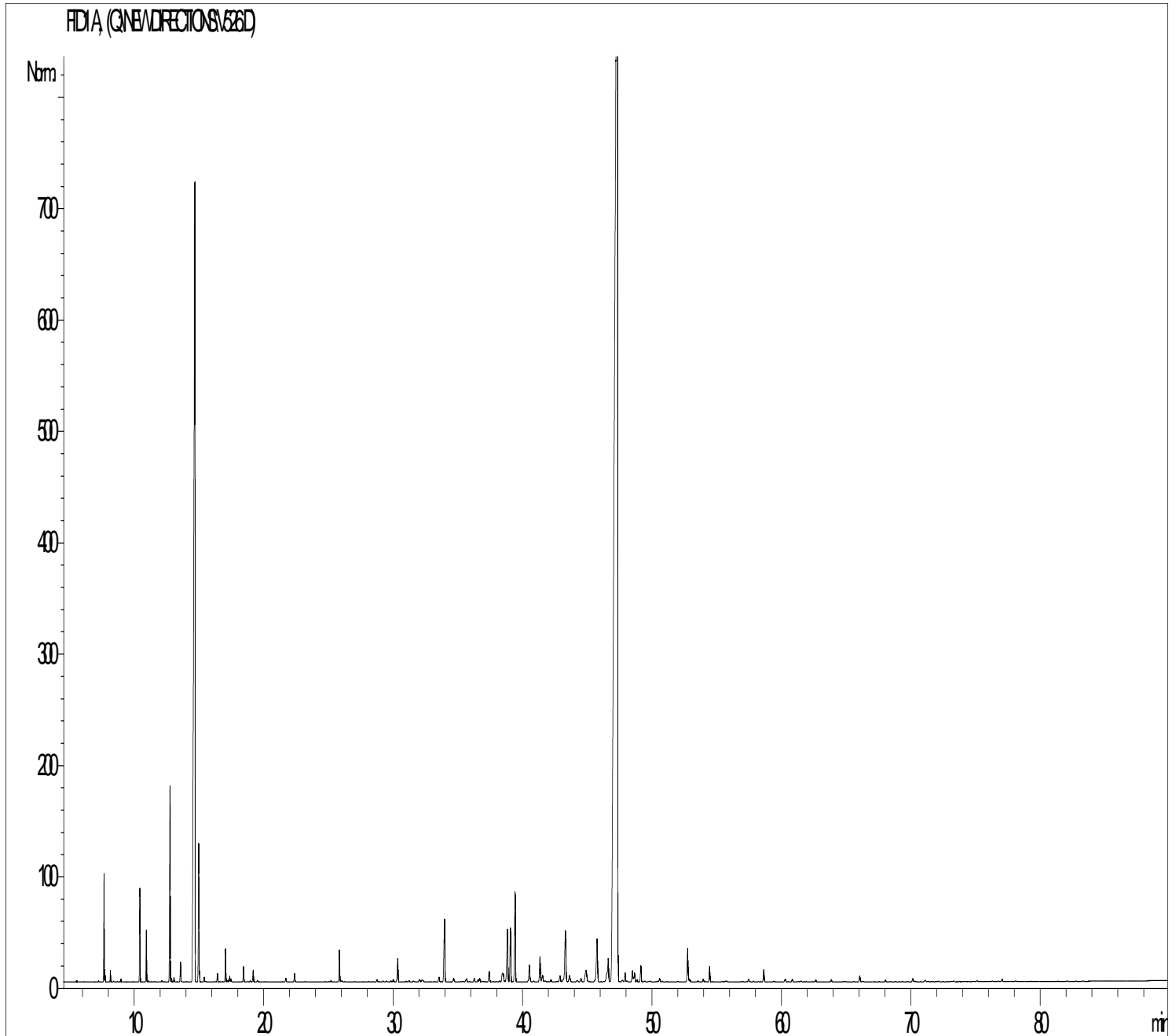


GCMS ANALYSIS

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - FAIR TRADE - 58104
DATE: January 24, 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 ORGANIC ESSENTIAL OIL - FAIR TRADE - 58104

Peak	RT (min)	Compound name	%
1	4,5	ACETONE	0,01
2	5,5	2-METHYL BUTANAL	0,01
3	5,6	ISOVALERALDEHYDE	0,01
4	7,2	2-METHYLBUTYRATE DE METHYLE	0,01
5	7,6	alpha-PINENE	0,84
6	7,7	alpha-THUYENE	0,05
7	8,1	FURAN, 2,5-DIETHYLTETRAHYDRO-	0,09
8	8,4	ALIPHATIC ESTER	0,01
9	8,9	CAMPHENE	0,02
10	10,4	beta-PINENE	0,89
11	10,9	SABINENE	0,49
12	12,1	delta3-CARENE	0,01
13	12,7	beta-MYRCENE	2,13
14	12,8	alpha-PHELLANDRENE	0,03
15	13,1	psi-LIMONENE	0,04
16	13,5	alpha-TERPINENE	0,22
17	14,6	LIMONENE	17,44
18	14,9	1,8-CINEOLE	1,54
19	15,0	beta-PHELLANDRENE	0,07
20	15,4	1,3,8-p-MENTHATRIENE	0,05
21	16,4	Cis-beta-OCIMENE	0,09
22	17,0	gamma-TERPINENE	0,38
23	17,2	MENTHATRIENE ISOMER	0,02
24	17,4	Trans-beta-OCIMENE	0,06
25	17,5	3-OCTANONE	0,03
26	18,4	p-CYMENE	0,18
27	18,9	2-METHYLBUTYRATE DE 2-METHYLBUTYLE	0,02
28	19,2	TERPINOLENE	0,14
29	19,5	OCTANAL	0,01
30	21,7	CYCLOHEXANONE, 3-METHYL	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - FAIR TRADE - 58104

Peak	RT (min)	Compound name	%
31	22,3	2-OCTYL ACETATE	0,11
32	25,2	3-HEXEN-1-OL	0,02
33	25,8	3-OCTANOL	0,41
34	26,0	GALBANOLENE	0,02
35	28,7	alpha-p-DIMETHYLSTYRENE	0,03
36	29,2	ALIPHATIC ALCOHOL	0,02
37	29,5	1-OCTEN-3-OL	0,02
38	29,8	2,5-DIMETHYLCYCLOHEXANOL	0,02
39	30,0	LIMONENE trans-EPOXIDE	0,04
40	30,3	MENTHONE + trans-THUYANOL	0,36
41	31,2	OCTYL ACETATE	0,02
42	31,5	BICYCLOELEMENE	0,02
43	31,6	ISOMENTHONE	0,01
44	32,0	HEXENYLIC ESTER	0,06
45	32,3	alpha-COPAENE	0,06
46	33,5	alpha-BOURBONENE	0,08
47	33,9	beta-BOURBONENE	1,02
48	34,6	CYCLOHEXANOL 3,5-DIMETHYL	0,06
49	35,6	LINALOOL	0,05
50	35,7	Cis-THUYANOL	0,03
51	36,2	PINOCARVONE	0,02
52	36,3	1-OCTANOL	0,04
53	36,5	Trans-p-MENTH-2-EN-1-OL	0,03
54	36,6	MENTHYL ACETATE	0,05
55	37,4	epsilon-CADINENE	0,19
56	38,4	beta-ELEMENE + beta-CUBEBENE	0,28
57	38,8	TERPINENE-4-OL	1,01
58	39,1	beta-CARYOPHYLLENE	0,77
59	39,4	Cis-DIHYDROCARVONE	1,40
60	40,5	Trans-DIHYDROCARVONE	0,30

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - FAIR TRADE - 58104

Peak	RT (min)	Compound name	%
61	40,8	Cis-p-MENTHADIEN-1-OL	0,02
62	41,3	GERMACRENE A	0,40
63	41,5	MENTHOL	0,13
64	42,2	ALLO-AROMADENDRENE	0,04
65	42,6	ESTRAGOL	0,02
66	42,9	ZONARENE	0,13
67	43,2	alpha-HUMULENE + DIHYDROCARVYL ACETATE	0,50
68	43,3	E-beta-FARNESENE	0,59
69	43,6	delta-TERPINEOL	0,16
70	44,2	NERAL	0,04
71	44,5	gamma-MUUROLENE	0,07
72	44,9	alpha-TERPINEOL + BORNEOL	0,31
73	45,0	LEDENE	0,05
74	45,7	GERMACRENE D	0,94
75	46,5	PIPERITONE	0,21
76	46,6	SESQUITERPENE	0,35
77	47,3	CARVONE	61,98
78	47,4	SESQUITERPENE	0,14
79	47,9	Trans-DIHYDROCARVEOL	0,13
80	48,4	delta-CADINENE	0,19
81	48,6	gamma-CADINENE	0,17
82	48,8	MYRCENYL ACETATE	0,04
83	49,1	Trans-CARVYL ACETATE	0,24
84	49,5	alpha-BISABOLENE	0,02
85	50,5	CARVONE Cis-OXIDE	0,05
86	52,7	Trans-CARVEOL	0,55
87	52,9	CARVONE Trans-OXIDE	0,04
88	53,9	E-GERANYL ACETONE	0,04
89	54,4	Cis-CARVEOL	0,23
90	55,7	MENTHADIENOL ISOMERE	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - FAIR TRADE - 58104

Peak	RT (min)	Compound name	%
91	57,5	PIPERITENONE	0,04
92	58,6	Trans-JASMONE	0,18
93	60,2	2-PHENYLETHYLIC VALERATE	0,05
94	60,8	CARYOPHYLLENE EPOXIDE	0,04
95	62,6	METHYL DIISOPROPYLPHENOL ISOMER	0,03
96	63,8	NEROLIDOL	0,04
97	66,0	VIRIDIFLOROL	0,09
98	68,0	SPATHULENOL	0,02
99	70,1	EUGENOL	0,05
100	71,1	THYMOL	0,03
101	75,1	Trans-LIMONENE-1,2-DIOL	0,02
102	77,0	2,4-DIISOPROPYLPHENOL-5-METHYL	0,04
		TOTAL	99,93

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