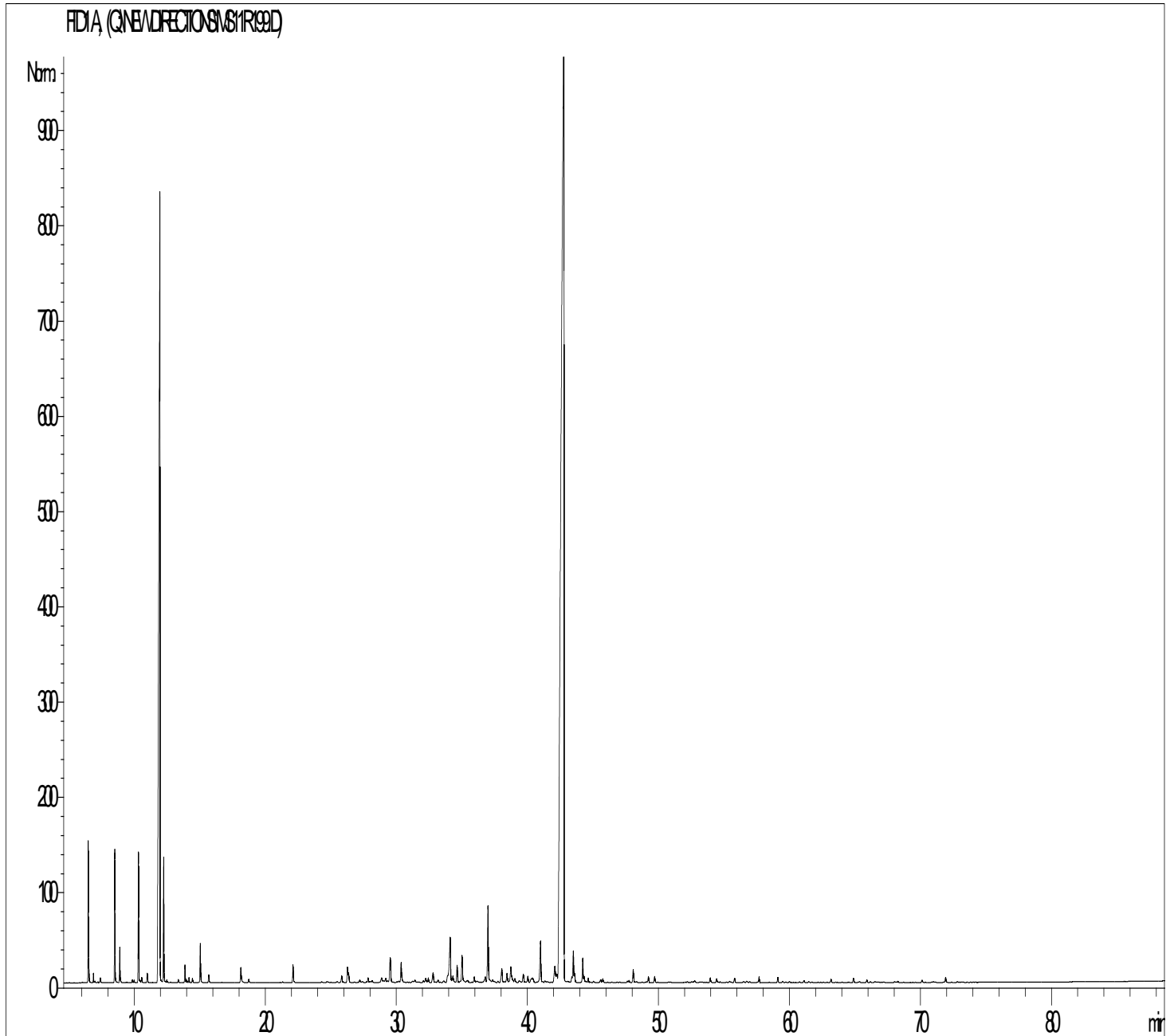




GCMS ANALYSIS

PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - 50022

DATE: May 28, 2018



*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 - 50022

Peak	RT (min)	Compound name	%
1	6,4	alpha-PINENE	1,26
2	6,5	alpha-THUYENE	0,11
3	6,8	FURAN, 2,5-DIETHYLTETRAHYDRO-	0,09
4	7,0	METHYLETHYL-METHYL CYCLOHEXENE ISO.	0,02
5	7,3	alpha-FENCHENE	0,01
6	7,4	CAMPHENE	0,05
7	8,5	beta-PINENE	1,47
8	8,9	SABINENE	0,39
9	9,0	PINADIENE	0,02
10	9,8	delta3-CARENE	0,04
11	9,9	OCTANE, 1-METHOXY-	0,03
12	10,3	beta-MYRCENE	1,51
13	10,4	alpha-PHELLANDRENE	0,03
14	10,5	psi-LIMONENE	0,07
15	10,9	alpha-TERPINENE	0,14
16	11,9	<b>LIMONENE</b>	<b>20,05</b>
17	12,2	1,8-CINEOLE	1,47
18	12,4	MENTHATRIENE ISOMER	0,04
19	13,3	Cis-beta-OCIMENE	0,04
20	13,8	gamma-TERPINENE	0,24
21	14,0	MENTHATRIENE ISOMER	0,04
22	14,1	Trans-beta-OCIMENE	0,07
23	14,4	3-OCTANONE	0,06
24	15,0	p-CYMENE	0,54
25	15,6	TERPINOLENE	0,12
26	18,1	CYCLOHEXANONE, 3-METHYL	0,28
27	18,7	2-OCTYL ACETATE	0,05
28	22,1	3-OCTANOL	0,27
29	25,8	2,5-DIMETHYLCYCLOHEXANOL	0,13
30	26,2	MENTHONE	0,25

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - 50022**

Peak	RT (min)	Compound name	%
31	26,3	Trans-THUYANOL	0,18
32	27,2	BICYCLOELEMENE	0,04
33	27,8	ISOMENTHONE	0,10
34	28,1	alpha-COPAENE	0,05
35	28,8	ALIPHATIC ESTER	0,12
36	29,1	alpha-BOURBONENE	0,10
37	29,5	beta-BOURBONENE	0,58
38	30,3	TERPENIC ALCOHOL	0,41
39	32,2	MENTHYL ACETATE	0,10
40	32,8	ISOPULEGOL	0,08
41	32,8	epsilon-CADINENE	0,25
42	33,1	COMPOUND Mw=150	0,07
43	33,8	beta-CUBEBENE	0,17
44	34,1	beta-CARYOPHYLLENE	1,23
45	34,3	TERPINENE-4-OL	0,16
46	34,6	NEOMENTHOL	0,30
47	35,0	Cis-DIHYDROCARVONE	0,59
48	35,5	Trans-DIHYDROCARVONE	0,05
49	35,9	Cis-p-MENTHADIEN-1-OL	0,13
50	36,7	GERMACRENE A	0,13
51	37,0	MENTHOL	1,42
52	37,3	SESQUITERPENE	0,06
53	38,0	SESQUITERPENE	0,33
54	38,4	alpha-HUMULENE	0,22
55	38,7	DIHYDROCARVYL ACETATE	0,35
56	38,8	Cis-4,5-MUUROLADIENE	0,13
57	39,0	Z-beta-FARNESENE	0,10
58	39,6	gamma-MUUROLENE	0,19
59	40,0	SESQUITERPENE	0,14
60	40,2	alpha-TERPINEOL	0,15

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: SPEARMINT ORGANIC ESSENTIAL OIL - 50022**

Peak	RT (min)	Compound name	%
61	40,3	LEDENE	0,09
62	40,9	GERMACRENE D	0,96
63	42,0	PIPERITONE	0,44
64	42,2	SESQUITERPENE	0,20
65	42,7	<b>CARVONE</b>	<b>57,97</b>
66	42,8	BICYCLOGERMACRENE	0,77
67	43,3	DIHYDROCARVEOL ISOMER	0,08
68	43,5	delta-CADINENE	0,56
69	43,6	gamma-CADINENE	0,16
70	44,2	1-DECANOL	0,40
71	44,3	Trans-CARVYL ACETATE	0,11
72	44,6	alpha-BISABOLENE	0,07
73	45,5	alpha-AMORPHENE	0,06
74	45,7	Trans-p-MENTHA-1,8-DIEN-2-OL	0,07
75	47,6	CALAMENENE ISOMER	0,03
76	47,7	CALAMENENE	0,04
77	48,0	Trans-CARVEOL	0,23
78	49,2	E-GERANYL ACETONE	0,10
79	49,7	Cis-CARVEOL	0,12
80	53,9	Trans-JASMONE	0,09
81	54,4	PIPERITENONE OXIDE	0,08
82	55,8	CARYOPHYLLENE EPOXIDE	0,08
83	57,6	METHYL DIISOPROPYLPHENOL ISOMER	0,09
84	59,1	NEROLIDOL	0,09
85	63,1	SPATHULENOL	0,06
86	64,8	EUGENOL	0,08
87	65,9	THYMOL	0,05
88	71,9	2,4-DIISOPROPYLPHENOL-5-METHYL	0,09
		<b>TOTAL</b>	<b>99,99</b>

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