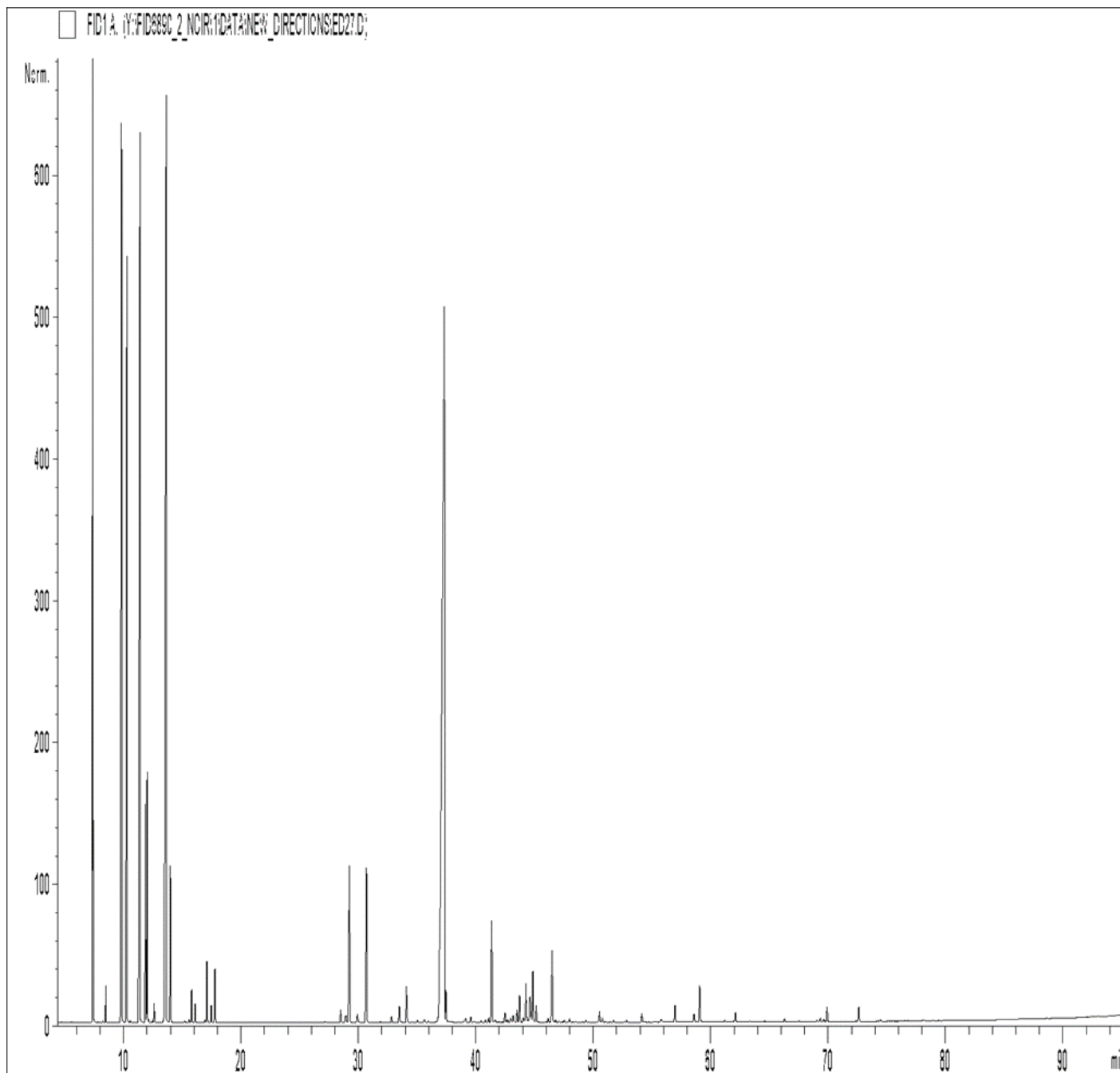


GCMS ANALYSIS

PRODUCT NAME: PEPPER BLACK ESSENTIAL OIL - 11111

DATE: March 26, 2021



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: PEPPER BLACK ESSENTIAL OIL - 11111

Peak	RT (min)	Compound name	%
1	4,69	ACETONE	0,01
2	5,56	ISOVALERALDEHYDE	0,01
3	7,04	TRICYCLENE	0,01
4	7,38	alpha-PINENE	9,24
5	7,43	alpha-THUYENE	0,90
6	8,24	alpha-FENCHENE	0,01
7	8,48	CAMPHENE	0,25
8	9,84	beta-PINENE	9,20
9	10,28	SABINENE	7,18
10	10,59	delta2-CARENE	0,01
11	11,40	delta3-CARENE	10,98
12	11,87	beta-MYRCENE	1,84
13	12,01	alpha-PHELLANDRENE	1,91
14	12,15	psi-LIMONENE	0,02
15	12,46	o-CYMENE	0,01
16	12,61	alpha-TERPINENE	0,16
17	13,39	ISOSYLVESTRENE	0,02
18	13,64	LIMONENE	14,55
19	13,90	1,8-CINEOLE	0,04
20	13,99	beta-PHELLANDRENE	1,34
21	15,22	cis-beta-OCIMENE	0,02
22	15,60	TERPENE ISOMER	0,03
23	15,81	gamma-TERPINENE	0,30
24	16,12	trans-beta-OCIMENE	0,16
25	16,95	m-CYMENE	0,03
26	17,11	p-CYMENE	0,57
27	17,48	ISOTERPINOLENE	0,16
28	17,79	TERPINOLENE	0,51
29	27,16	alpha,p-DIMETHYLSTYRENE	0,02
30	28,49	alpha-CUBEBENE	0,16

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ESSENTIAL OIL - 11111

Peak	RT (min)	Compound name	%
31	28,90	trans-THUYANOL	0,07
32	28,95	ELEMENE ISOMER	0,07
33	29,25	delta-ELEMENE	2,10
34	29,91	ISOLEDENE + CYCLOSATIVENE	0,10
35	30,03	YLANGENE	0,02
36	30,69	alpha-COPAENE	2,13
37	31,87	CAMPHOR	0,01
38	32,83	alpha-GURJUNENE	0,08
39	33,48	beta1-CUBEBENE	0,20
40	34,09	LINALOOL	0,42
41	34,57	LINALYL ACETATE	0,01
42	35,03	trans-p-MENTH-2-EN-1-OL	0,03
43	35,40	METHYL CITRONELLATE	0,01
44	35,62	epsilon-CADINENE	0,05
45	35,95	ELEMENE ISOMER	0,02
46	36,93	beta-ELEMENE	1,03
47	37,33	beta-CARYOPHYLLENE	25,68
48	37,45	TERPINENE-4-OL	0,39
49	37,62	6,9-GUAIADIENE	0,04
50	39,02	CADINA-3,5-DIENE	0,02
51	39,02	CADINA-3,5-DIENE	0,02
52	39,12	GERMACRENE A	0,06
53	39,56	ALLO-AROMADENDRENE	0,07
54	39,88	GURJUNENE ISOMER	0,02
55	40,81	SESQUITERPENE	0,03
56	41,08	ZONARENE	0,05
57	41,35	alpha-HUMULENE	1,37
58	41,63	E-beta-FARNESENE	0,08
59	41,96	cis-PIPERITOL	0,02
60	42,47	gamma-MUUROLENE	0,14

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ESSENTIAL OIL - 11111

Peak	RT (min)	Compound name	%
61	42,69	CALARENE	0,04
62	42,96	LEDENE	0,07
63	43,17	alpha-TERPINEOL	0,10
64	43,51	GURJUNENE ISOMER	0,15
65	43,72	GERMACRENE D	0,36
66	44,04	MUUROLADIENE ISOMER	0,07
67	44,26	beta-SELINENE	0,50
68	44,32	PIPERITONE	0,06
69	44,48	VALENCENE	0,03
70	44,62	alpha-SELINENE	0,31
71	44,65	alpha-MUUROLENE	0,21
72	44,85	beta-BISABOLENE	0,64
73	45,13	BICYCLOGERMACRENE	0,21
74	46,17	E,E-alpha-FARNESENE	0,05
75	46,50	delta-CADINENE	0,94
76	46,77	gamma-CADINENE	0,04
77	47,06	alpha-PANASINSEN	0,02
78	47,31	beta-SESQUIPELLANDRENE	0,01
79	47,54	alpha-CURCUMENE	0,03
80	47,98	CADINA-1,4-DIENE	0,04
81	48,29	MYRTENOL	0,01
82	49,06	NEROL	0,01
83	49,36	trans-SABINOL	0,03
84	50,53	GERMACRENE B	0,15
85	50,78	CALAMENENE	0,06
86	51,02	trans-CARVEOL	0,02
87	51,44	m-CYMENE-8-OL	0,01
88	51,72	p-CYMENE-8-OL	0,02
89	52,85	AROMATIC COMPOUND	0,02
90	54,13	epi-CUBEBOL	0,10

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ESSENTIAL OIL - 11111

Peak	RT (min)	Compound name	%
91	54,37	alpha-CALACORENE	0,02
92	55,70	HUMULENE EPOXIDE	0,03
93	55,78	SESQUITERPENIC EPOXIDE	0,03
94	56,95	CUBEBOL	0,22
95	58,58	ISOCARYOPHYLLENE EPOXIDE	0,11
96	59,06	CARYOPHYLLENE EPOXIDE	0,49
97	60,77	SESQUITERPENIC EPOXIDE	0,01
98	61,21	LEDOL	0,02
99	62,01	epoxy-6,7-HUMULENE	0,02
100	62,12	NEROLIDOL	0,12
101	62,92	epi-CUBENOL	0,01
102	63,32	CUBENOL	0,01
103	64,60	VIRIDIFLOROL	0,01
104	66,30	SPATHULENOL	0,04
105	67,51	beta-COPAEN-4-alpha-OL	0,02
106	69,05	T-CADINOL	0,02
107	69,34	2-ACETYLCYCLOPENTANONE	0,04
108	69,63	alpha-MUUROLOL	0,03
109	69,90	delta-CADINOL	0,20
110	72,61	beta-NOOTKATOL	0,19
111	74,45	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,02
		TOTAL	99,96

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