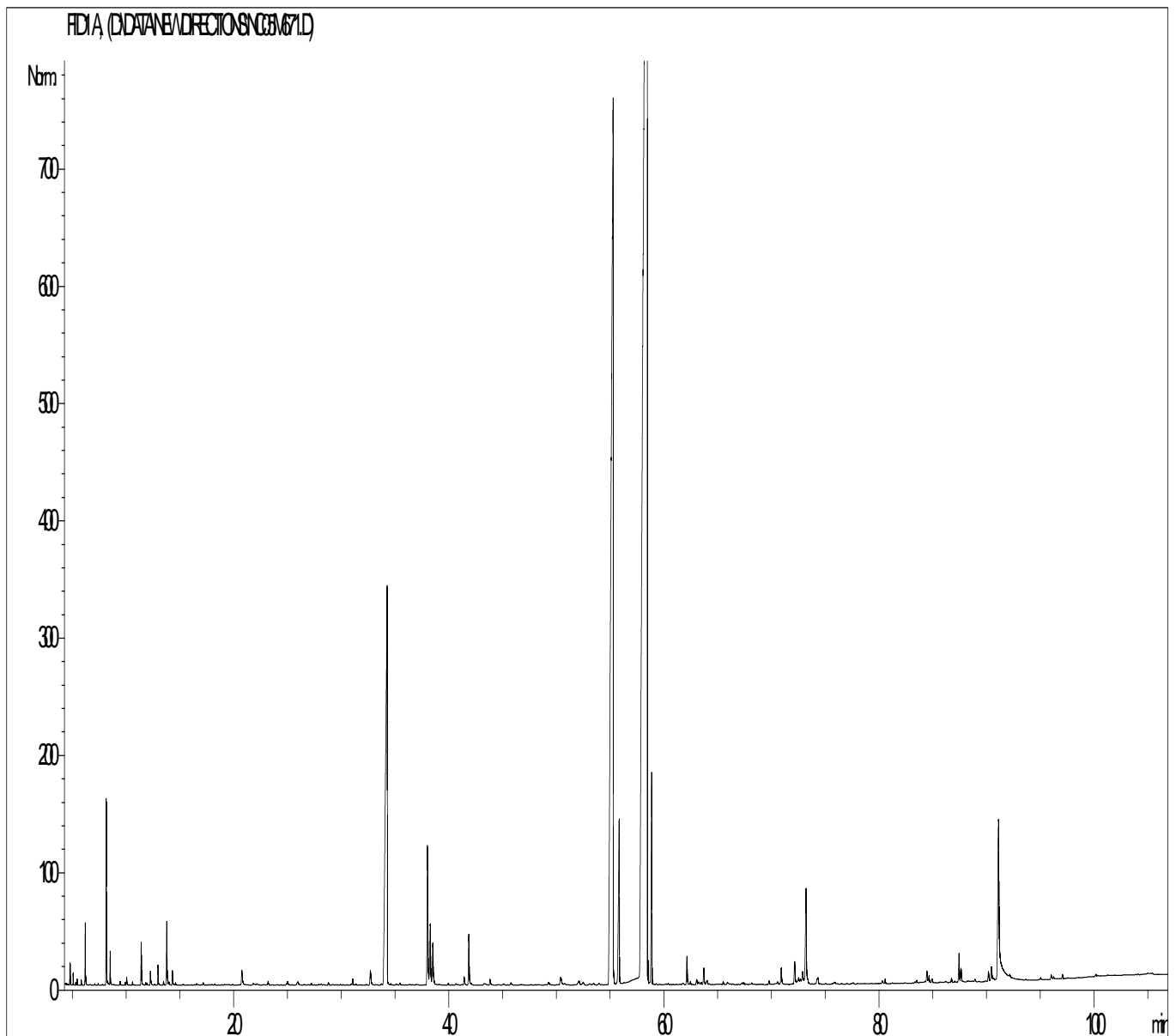




GCMS ANALYSIS

PRODUCT NAME: CATNIP ESSENTIAL OIL - 11321

DATE: August 31, 2017



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: CATNIP ESSENTIAL OIL - 11321

Peak	RT (min)	Compound name	%
1	4,7	BUTANAL, 2-METHYL-	0,04
2	4,8	ISOVALERALDEHYDE	0,07
3	5,0	FURAN,2-ETHYL-	0,03
4	5,3	ALIPHATIC ESTER	0,01
5	5,4	ALPHATIC ALCOHOL	0,02
6	5,8	METHYL, 2-METHYLBUTYRATE	0,02
7	6,1	OCTATRIENE Mw=108	0,01
8	6,2	α -PINENE	0,21
9	6,3	α -THUYENE	0,03
10	7,0	CAMPHENE	0,01
11	7,3	HEXANAL	0,01
12	7,8	COMPONENT Mw=122	0,01
13	8,1	β -PINENE	0,86
14	8,5	SABINENE	0,15
15	9,4	1-PENTEN-3-OL	0,02
16	9,9	β -MYRCENE	0,01
17	10,0	α -PHELLANDRENE	0,04
18	10,6	α -TERPINENE	0,02
19	11,4	LIMONENE	0,24
20	11,8	β -PHELLANDRENE	0,01
21	11,9	METHYL CYCLOPENTANONE	0,02
22	12,2	2-HEXENAL	0,09
23	12,6	FURAN, 2-PENTYL-	0,01
24	12,9	Cis- β -OCIMENE	0,11
25	13,4	METHYL OCTENE ISOMER	0,01
26	13,5	γ -TERPINENE	0,01
27	13,7	Trans- β -OCIMENE	0,41
28	13,9	3-OCTANONE	0,02
29	14,3	METHALLYL CYANIDE	0,09
30	14,6	p-CYMENE	0,01

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: CATNIP ESSENTIAL OIL - 11321

Peak	RT (min)	Compound name	%
31	15,3	TERPINOLENE	0,01
32	16,0	TERPENE ISOMER	0,01
33	16,5	COMPOUND CETONIC	0,01
34	17,1	TRIDECANE	0,02
35	17,6	ALIPHATIC ESTER	0,01
36	17,9	CYCLOHEXANONE DIMETHYL Mw=126	0,01
37	18,2	5-HEPTEN-2-ONE,6-METHYL-	0,01
38	18,9	COMPONENT Mw=138	0,01
39	19,1	1-HEXANOL	0,01
40	19,4	CYCLOHEXANONE DIMETHYL Mw=126 ISOMER	0,01
41	19,6	ALIPHATIC ALCOHOL	0,01
42	19,9	COMPONENT AROMATIC Mw=138	0,01
43	20,7	3-HEXEN-1-OL	0,16
44	21,8	NONANAL	0,02
45	22,1	2-HEXEN-1-OL	0,01
46	23,2	METHYLCYCLOPENTENYL ETHANONE	0,03
47	25,0	1-OCTEN-3-OL	0,03
48	25,9	TETRADECANE	0,05
49	26,5	Trans-THUYANOL	0,01
50	27,2	ALIPHATIC ESTER	0,01
51	27,9	ALIPHATIC ESTER	0,01
52	28,1	ALIPHATIC ESTER	0,01
53	28,8	3,9-époxy-p-MENTH-1-ENE (DILL ETHER)	0,02
54	29,1	BENZALDEHYDE	0,01
55	30,9	COMPONENT Mw=138	0,01
56	31,1	LINALOOL	0,04
57	31,3	COMPOUND Mw=138	0,01
58	31,7	DIMETHYL SULFOXYDE	0,01
59	32,3	NOPINONE	0,01
60	32,7	ISOCARYOPHYLLENE	0,16
61	33,7	α ,trans-BERGAMOTENE	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CATNIP ESSENTIAL OIL - 11321

Peak	RT (min)	Compound name	%
62	34,3	β-CARYOPHYLLENE	7,28
63	34,5	Cis-DIHYDROCARVONE	0,01
64	35,1	ALIPHATIC ESTER	0,01
65	35,4	Trans-ISOPULEGONE	0,02
66	36,9	Trans-PINOCARVEOL	0,01
67	38,0	ISONERAL	1,21
68	38,3	α-HUMULENE	0,62
69	38,5	E-β-FARNESENE	0,39
70	38,6	LAVANDULOL	0,05
71	39,0	NERAL	0,01
72	39,9	TERPENIC ACETATE	0,01
73	40,6	EREMOPHILENE	0,02
74	41,4	ALIPHATIC ESTER INSATURÉ	0,07
75	41,8	CARVONE	0,40
76	42,0	GERANIAL	0,02
77	43,3	α-FARNESENE	0,02
78	43,4	δ-CADINENE	0,01
79	43,8	METHYL SALICYLATE	0,05
80	44,9	SESQUITERPENE	0,01
81	45,1	BENZENEMETHANOL DIMETHYL	0,01
82	45,7	DIMETHYLANISOLE	0,02
83	49,2	NEPETALACTONE ISOMER	0,03
84	50,4	NEPETALACTONE ISOMER	0,13
85	50,7	NEPETALACTONE ISOMER	0,02
86	52,0	NEPETALACTONE ISOMER	0,07
87	52,4	SESQUITERPENOL OXIDE	0,05
88	53,1	NEPETALACTONE ISOMER	0,02
89	53,4	β-IONONE	0,02
90	53,9	NEPETALACTONE ISOMER	0,02
91	55,3	NEPETALACTONE ISOMER	20,00
92	55,8	CARYOPHYLLENE OXIDE	1,70

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CATNIP ESSENTIAL OIL - 11321

Peak	RT (min)	Compound name	%
93	58,4	NEPETALACTONE	55,42
94	58,5	6,7-HUMULENE,EPOXY	0,10
95	58,8	NEONEPETALACTONE	1,71
96	62,1	DIHYDRONEPTALACTONE	0,23
97	62,4	3-HEXENYL-Cis, BENZOATE-	0,02
98	63,0	COMPOUND Mw=166 ISOMER	0,05
99	63,2	COMPOUND Mw=166 ISOMER	0,03
100	63,4	COMPOUND Mw=166 ISOMER	0,02
101	63,7	PENTADECANONE TRIMETHYL	0,15
102	64,0	EUGENOL	0,06
103	65,5	4-VINYL QUAJACOL	0,02
104	65,9	AROMATIC COMPOUND	0,03
105	67,3	AROMATIC COMPOUND	0,02
106	67,4	NEPETALACTONIC COMPOUND	0,01
107	68,1	NEPETALACTONIC COMPOUND	0,01
108	69,7	AROMATIC COMPOUND	0,03
109	70,5	ALIPHATIC ALCOHOL	0,03
110	70,9	NEPETALACTONIC COMPOUND	0,16
111	72,1	ALIPHATIC ESTER	0,24
112	72,5	AROMATIC COMPOUND	0,10
113	72,6	AROMATIC COMPOUND	0,06
114	72,8	ALIPHATIC ESTER	0,17
115	73,2	NEPETALACTONIC COMPOUND	1,08
116	74,2	ALIPHATIC ALCOHOL	0,04
117	74,3	AROMATIC COMPOUND	0,06
118	75,8	ALIPHATIC ALCOHOL	0,03
119	80,3	COMPOUND Mw=166 ISOMER	0,02
120	80,6	COMPOUND Mw=166 ISOMER	0,03
121	83,3	AROMATIC COMPOUND	0,01
122	83,5	AROMATIC COMPOUND	0,02
123	84,4	AROMATIC COMPOUND	0,12

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CATNIP ESSENTIAL OIL - 11321

Peak	RT (min)	Compound name	%
124	84,6	AROMATIC COMPOUND	0,06
125	84,9	AROMATIC COMPOUND	0,04
126	86,7	NEPETALACTONIC COMPOUND	0,04
127	87,4	NEPETALACTONIC COMPOUND	0,24
128	87,6	NEPETALACTONIC COMPOUND	0,11
129	90,2	AROMATIC COMPOUND	0,09
130	90,4	AROMATIC COMPOUND	0,21
131	91,1	NEPETALACTONE ISOMER Mw=166	3,31
132	95,0	AROMATIC COMPOUND	0,02
133	96,0	AROMATIC COMPOUND	0,03
134	96,2	NEPETALACTONIC COMPOUND	0,02
135	97,0	NEPETALACTONIC COMPOUND	0,03
136	100,2	NEPETALACTONIC COMPOUND	0,02
		TOTAL	99,96

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