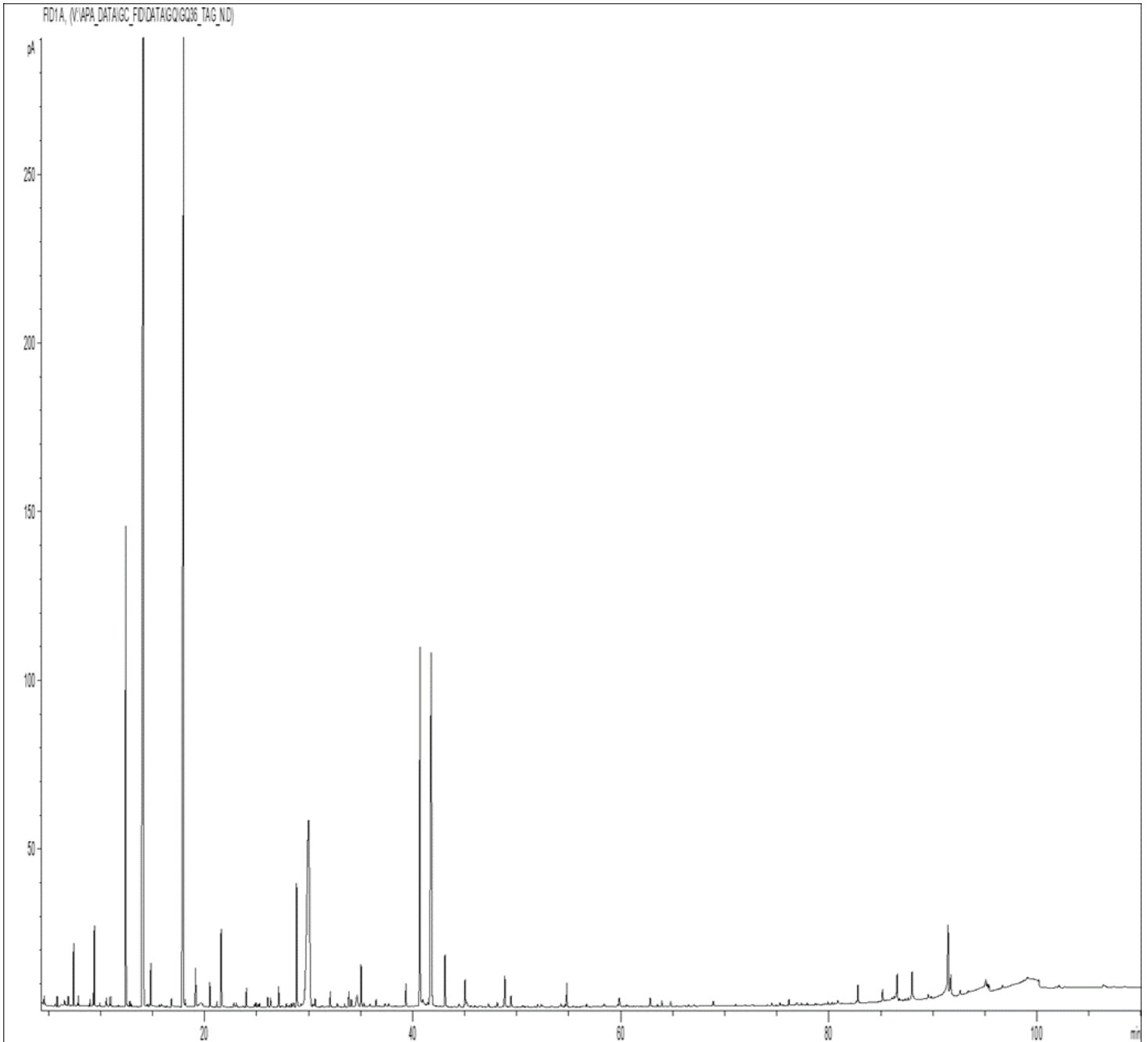


GCMS ANALYSIS

PRODUCT NAME: TAGETES ESSENTIAL OIL (EGYPT) - 11140

DATE: March 8, 2022



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: TAGETES ESSENTIAL OIL (EGYPT) - 11140

Peak	RT (min)	Compound name	%
1	5,64	METHYL VINYL KETONE	0,03
2	5,82	ETHYL ISOBUTYRATE	0,06
3	6,51	METHYL 2-METHYLBUTYRATE	0,03
4	6,89	alpha-PINENE	0,06
5	7,40	ETHYL 2-METHYLBUTYRATE	0,40
6	7,87	CAMPHENE	0,07
7	9,01	beta-PINENE	0,05
8	9,30	ISOAMYL ACETATE	0,12
9	9,41	SABINENE	0,63
10	9,96	PROPYL 2-METHYLBUTYRATE	0,03
11	10,57	COMPOUND Mw=110	0,09
12	10,88	beta-MYRCENE	0,08
13	11,01	alpha-PHELLANDRENE	0,09
14	12,43	LIMONENE	4,64
15	12,82	1,8-CINEOLE	0,06
16	12,97	beta-PHELLANDRENE	0,03
17	14,16	cis-beta-OCIMENE	31,74
18	14,54	gamma-TERPINENE	0,03
19	14,83	trans-beta-OCIMENE	0,39
20	15,87	p-CYMENE	0,03
21	16,82	OCTANAL	0,11
22	18,00	DIHYDROTAGETONE	17,05
23	18,15	3-HEXEN-1-OL ACETATE	0,08
24	19,14	METHOXY HEXADIENIC COMPOUND	0,41
25	19,68	METHOXY HEXADIENIC COMPOUND	0,25
26	20,52	TERPENIC COMPOUND	0,26
27	21,20	TERPENIC COMPOUND	0,07
28	21,61	ALLO-OCIMENE	0,90
29	22,83	TERPENIC COMPOUND	0,05
30	23,05	ALLO-OCIMENE ISOMER	0,06

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: TAGETES ESSENTIAL OIL (EGYPT) - 11140

Peak	RT (min)	Compound name	%
31	24,04	AROMATIC KETONE	0,21
32	24,95	ALIPHATIC KETONE	0,06
33	25,14	SILPHIPERFOL-7-ENE	0,04
34	26,08	TERPENIC KETONE	0,13
35	26,35	SESQUITERPENE	0,13
36	27,14	TERPENIC ALCOHOL	0,24
37	27,88	SESQUITERPENE	0,04
38	28,16	OCTYL ACETATE	0,03
39	28,36	MYROXIDE	0,05
40	28,57	ISOMENTHONE	0,07
41	28,86	E-TAGETONE	1,42
42	29,00	TERPENIC COMPOUND	0,03
43	29,27	COMPOUND Mw=152	0,05
44	30,00	Z-TAGETONE	9,68
45	30,45	TERPENIC OXIDE	0,04
46	30,63	MODHEPHENE	0,12
47	32,10	LINALOOL	0,18
48	32,76	DIMETHYL SULFOXIDE	0,05
49	33,46	TERPENIC OXIDE	0,05
50	33,89	AROMATIC COMPOUND	0,20
51	34,14	MYRCENON	0,10
52	34,66	TERPENIC ESTER	0,39
53	35,06	beta-CARYOPHYLLENE	0,55
54	35,32	TERPINENE-4-OL	0,06
55	35,92	TERPENIC OXIDE	0,03
56	36,51	CITRONELLYL FORMIATE	0,08
57	37,36	TERPENIC KETONE	0,04
58	37,71	MENTHOL	0,05
59	39,34	alpha-HUMULENE	0,30
60	40,69	E-TAGETENONE	4,47

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: TAGETES ESSENTIAL OIL (EGYPT) - 11140

Peak	RT (min)	Compound name	%
61	40,97	BORNEOL	0,13
62	41,07	LEDENE	0,03
63	41,42	GERMACRENE D	0,03
64	41,77	Z-TAGETENONE	7,83
65	43,11	BICYCLOGERMACRENE	0,69
66	44,46	delta-CADINENE	0,04
67	45,02	CITRONELLOL	0,42
68	45,19	AROMATIC COMPOUND	0,10
69	47,28	3,5,7-OCTATRIENE-2-OL, Z,Z-2,6-DIMETHYL-	0,05
70	48,13	3,5,7-OCTATRIENE-2-OL, E,E-2,6-DIMETHYL-	0,06
71	48,84	ISOPIPERITENONE	0,43
72	49,44	GERANIOL	0,15
73	52,03	TERPENIC KETONE	0,05
74	52,32	TERPENIC KETONE	0,03
75	52,45	GERANYL ISOVALERATE	0,04
76	53,31	TERPENIC KETONE	0,03
77	54,26	COMPOUND Mw=168	0,05
78	54,66	SESQUITERPENOL	0,03
79	54,81	ISOPHYTYL ACETATE	0,28
80	56,70	CARYOPHYLLENE OXIDE	0,04
81	58,43	SESQUITERPENOL	0,04
82	59,86	METHYLEUGENOL	0,17
83	60,55	CAPRYLIC ACID	0,04
84	62,82	10-epi-gamma-EUDESOL	0,14
85	63,52	GERANYL TIGLATE	0,03
86	63,94	SPATHULENOL	0,08
87	64,79	SESQUITERPENIC EPOXIDE	0,08
88	68,89	AROMATIC COMPOUND	0,08
89	74,51	DITERPENIC COMPOUND	0,04
90	75,30	AROMATIC COMPOUND	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: TAGETES ESSENTIAL OIL (EGYPT) - 11140

Peak	RT (min)	Compound name	%
91	76,16	TERPENIC ESTER	0,08
92	76,91	AROMATIC COMPOUND	0,05
93	77,35	TERPENIC KETONE	0,03
94	77,92	AROMATIC COMPOUND	0,03
95	79,90	TERPENIC KETONE	0,04
96	80,30	AROMATIC COMPOUND	0,03
97	80,88	AROMATIC ESTER	0,07
98	82,67	AROMATIC COMPOUND Mw=300	0,03
99	82,80	AROMATIC COMPOUND Mw=302	0,25
100	85,16	AROMATIC COMPOUND Mw=302	0,18
101	86,58	AROMATIC COMPOUND Mw=304	0,57
102	86,80	AROMATIC COMPOUND Mw=302	0,03
103	87,64	AROMATIC COMPOUND Mw=300	0,03
104	88,01	AROMATIC COMPOUND Mw=300	0,55
105	89,56	AROMATIC COMPOUND Mw=302	0,07
106	89,84	AROMATIC COMPOUND Mw=300	0,03
107	91,47	AROMATIC COMPOUND Mw=300	1,90
108	91,73	AROMATIC COMPOUND Mw=300	0,50
109	92,65	AROMATIC COMPOUND Mw=300	0,08
110	95,10	AROMATIC COMPOUND Mw=300	1,63
111	95,27	AROMATIC COMPOUND Mw=300	0,04
112	95,39	bis-ETHYLHEXYL ACETATE	0,05
113	95,66	AROMATIC ANGELATE ESTER	3,99
114	96,71	AROMATIC COMPOUND Mw=300	0,04
115	99,11	AROMATIC ESTER	0,08
116	101,79	DITERPENIC COMPOUND	0,04
117	102,12	AROMATIC COMPOUND Mw=302	0,08
118	102,66	DITERPENIC COMPOUND	0,04
119	106,41	DITERPENIC COMPOUND	0,06
120	106,59	AROMATIC COMPOUND	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: TAGETES ESSENTIAL OIL (EGYPT) - 11140

Peak	RT (min)	Compound name	%
121	107,39	DITERPENIC COMPOUND	0,04
122	108,49	DITERPENIC COMPOUND	0,04
		TOTAL	98,67

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