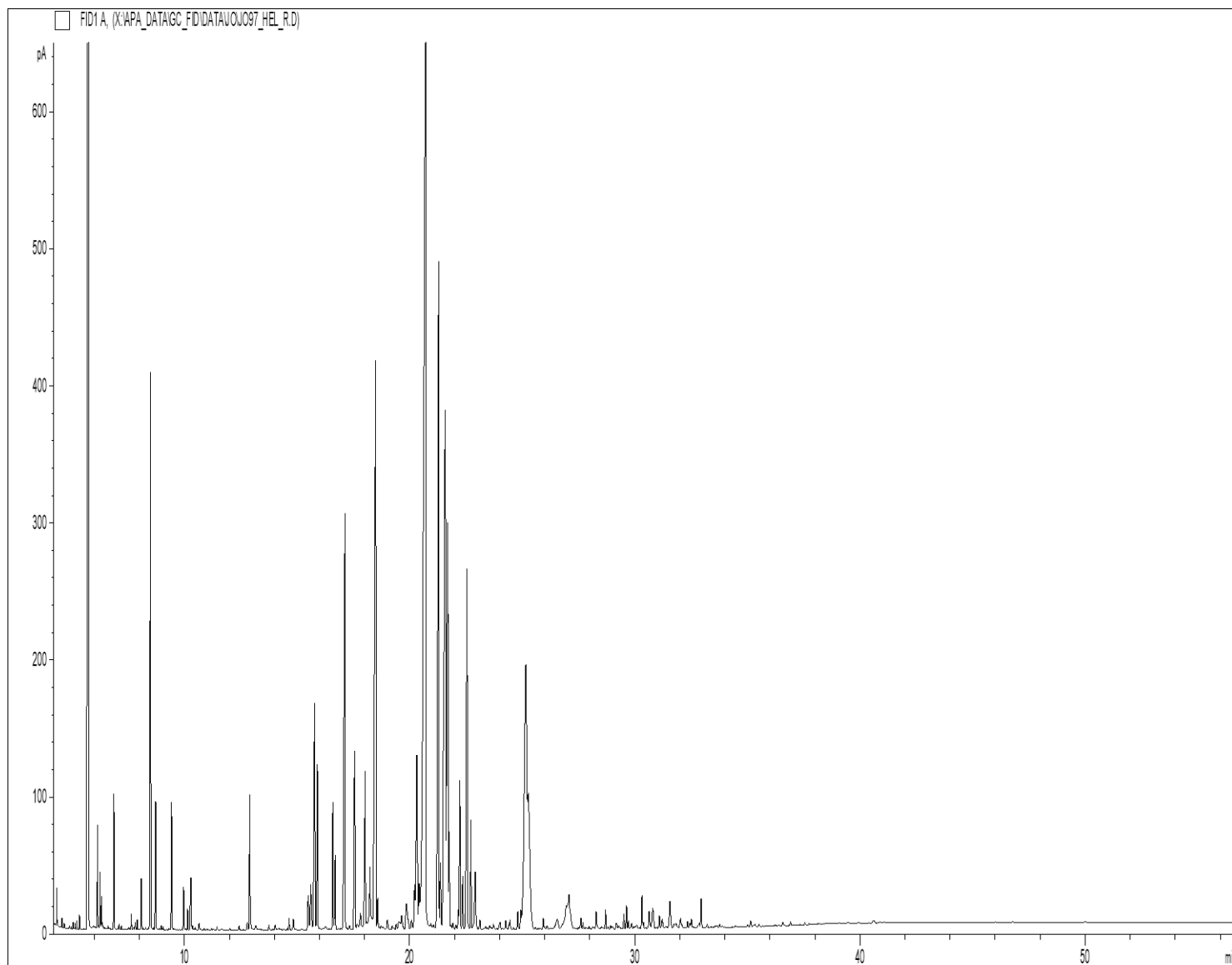


GCMS ANALYSIS

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

DATE: September 14, 2023



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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
1	4,34	2-HEPTENE, 2-METHYL-	0,11
2	4,57	NONANE	0,03
3	4,67	BUTANAL, 2-METHYL-	0,02
4	4,91	FURAN, 2-ETHYL-	0,02
5	5,06	PROPANONE ISOMER	0,02
6	5,16	3-PENTANONE	0,02
7	5,23	BORNYLENE	0,03
8	5,35	3-PENTANONE, 2-METHYL-	0,06
9	5,76	alpha-PINENE	26,49
10	6,15	alpha-FENCHENE	0,34
11	6,26	CAMPHENE	0,19
12	6,32	3-HEXANONE, 4-METHYL-	0,11
13	6,37	HEXANAL	0,02
14	6,88	beta-PINENE	0,50
15	7,10	PINADIENE	0,02
16	7,21	delta2-CARENE	0,01
17	7,54	COMPOUND Mw=152	0,01
18	7,65	beta-MYRCENE	0,06
19	7,82	alpha-PHELLANDRENE	0,03
20	7,91	ISOBUTYL 2-METHYLBUTYRATE	0,04
21	8,09	alpha-TERPINENE	0,21
22	8,29	ALIPHATIC ESTER	0,01
23	8,42	ALIPHATIC ESTER	0,01
24	8,50	LIMONENE	2,51
25	8,72	1,8-CINEOLE	0,52
26	8,98	FURAN, 2-PENTYL-	0,02
27	9,06	cis-beta-OCIMENE	0,02
28	9,43	gamma-TERPINENE	0,51
29	9,45	trans-beta-OCIMENE	0,03
30	9,96	p-CYMENE	0,18

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
31	10,14	2-METHYLBUTYL 2-METHYLBUTYRATE	0,09
32	10,29	TERPINOLENE	0,38
33	11,89	ISOBUTYL ANGELATE	0,02
34	10,36	ALIPHATIC ESTER	0,02
35	10,48	OCTANAL	0,02
36	10,66	TRIDECANE	0,04
37	10,88	3-HEXEN-1-OL ACETATE	0,01
38	11,29	ALIPHATIC COMPOUND	0,01
39	11,44	5-HEPTEN-2-ONE, 6-METHYL-	0,02
40	11,63	1-HEXANOL	0,01
41	12,43	ALIPHATIC ESTER	0,02
42	12,80	2-NONANONE	0,06
43	12,90	2-METHYLBUTYL ANGELATE	0,69
44	13,02	ALIPHATIC ESTER	0,01
45	13,17	ALIPHATIC ESTER	0,05
46	13,75	HEXYL 2-METHYLBUTYRATE	0,03
47	14,03	ALIPHATIC ESTER	0,03
48	14,19	alpha,p-DIMETHYLSTYRENE	0,02
49	14,41	METHYL-p-CRESOL	0,01
50	14,65	HEXYL ANGELATE	0,06
51	14,84	NERYL OXIDE	0,04
52	14,85	ALIPHATIC ESTER	0,04
53	14,96	ALIPHATIC ESTER	0,01
54	15,22	SESQUITERPENE	0,02
55	15,50	YLANGENE	0,26
56	15,61	SESQUITERPENE	0,35
57	15,78	alpha-COPAENE	1,60
58	15,91	ISOITALICENE	0,95
59	16,28	HEPTANE-3,5-DIONE, 2,4-DIMETHYL-	0,06
60	16,42	SATIVENE	0,01

GCMS ANALYSIS (cont'd,)

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PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
61	16,59	LINALOOL	0,58
62	16,70	HEXYL ANGELATE ISOMER	0,39
63	16,85	SESQUITERPENE	0,01
64	16,97	alpha-GURJUNENE	0,02
65	17,13	ITALICENE	3,25
66	17,22	ITALICENE ISOMER	0,01
67	17,33	ITALICENE ISOMER	0,03
68	17,56	alpha-cis-BERGAMOTENE	1,28
69	17,62	3,5-DIMETHYLOCTANE-4,6-DIONE	0,69
70	17,67	SESQUITERPENE	0,03
71	17,82	FENCHOL	0,05
72	17,85	ISOCARYOPHYLLENE	0,05
73	18,03	alpha-trans-BERGAMOTENE	0,94
74	18,24	TERPINENE-4-OL	0,32
75	18,50	beta-CARYOPHYLLENE	5,09
76	18,58	6,9-GUAIADIENE	0,20
77	18,67	SESQUITERPENE	0,01
78	18,73	HEXYL TIGLATE	0,03
79	18,81	AROMADENDRENE	0,04
80	19,01	SESQUITERPENE	0,09
81	19,22	epi-beta-SANTALENE	0,03
82	19,30	CADINA-3,5-DIENE	0,02
83	19,40	SESQUITERPENE	0,04
84	19,52	ALLO-AROMADENDRENE	0,06
85	19,57	SESQUITERPENE	0,06
86	19,65	trans-PINOCARVEOL	0,13
87	19,86	E-beta-FARNESENE	0,36
88	20,08	SESQUITERPENE	0,09
89	20,22	alpha-HUMULENE	0,31
90	20,32	gamma-SELINENE	1,60

GCMS ANALYSIS (cont'd.)

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PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
91	20,32	CURCUMENE ISOMER	1,60
92	20,42	Z-beta-FARNESENE	0,36
93	20,72	gamma-CURCUMENE	14,62
94	22,30	alpha-TERPINEOL	0,52
95	20,95	BORNEOL	0,08
96	21,07	COMPOUND Mw=222	0,05
97	21,29	NERYL ACETATE	5,09
98	21,37	EREMOPHILENE	0,43
99	21,59	beta-SELINENE	6,05
100	21,70	alpha-SELINENE	3,42
101	21,76	beta-CURCUMENE	0,52
102	21,84	SESQUITERPENE	0,03
103	21,92	SESQUITERPENE	0,06
104	22,06	SESQUITERPENE Mw=202	0,03
105	22,16	E,E-alpha-FARNESENE	0,09
106	22,23	delta-CADINENE	0,83
107	22,36	gamma-CADINENE	0,30
108	22,38	7-epi-alpha-SELINENE	0,09
109	22,55	alpha-CURCUMENE	2,32
110	22,72	NERYL PROPIONATE	0,56
111	22,91	NEROL	0,44
112	23,10	CADINA-1,4-DIENE	0,09
113	23,12	alpha-AMORPHENE	0,06
114	23,37	2,4-DECADIENAL	0,02
115	23,46	COMPOUND Mw=202	0,01
116	23,55	ALIPHATIC ESTER	0,03
117	23,62	AROMATIC COMPOUND Mw=194	0,02
118	23,72	MENTHATRIENIC COMPOUND	0,04
119	23,86	COMPOUND Mw=220	0,01
120	24,01	trans-CALAMENENE	0,07

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
121	24,27	COMPOUND Mw=220	0,06
122	24,46	NERYL ISOBUTYRATE	0,08
123	24,81	COMPOUND Mw=220	0,10
124	24,94	NERYL 2-METHYLBUTYRATE	0,05
125	25,16	ITALIDIONE I	6,85
126	28,00	ITALIDIONE II	0,01
127	25,58	AROMATIC COMPOUND	0,02
128	25,94	alpha-CALACORENE	0,07
129	26,10	COMPOUND Mw=222	0,03
130	28,84	NEROLIDOL	0,11
131	28,93	PENTADECANAL	0,03
132	29,11	CAPRYLIC ACID	0,02
	29,28		0,10
133	29,11	NERYL CAPROATE	0,02
134	29,41	AROMATIC COMPOUND Mw=200	0,01
135	29,52	SESQUITERPENOL	0,02
136	29,58	Epi-CUBENOL	0,01
137	29,78	CUBENOL	0,06
138	29,88	GERANYL TIGLATE	0,03
139	30,10	GUAJOL	0,10
140	30,22	COMPOUND Mw=235	0,03
141	30,29	2-PHENYLETHYL TIGLATE	0,05
142	30,42	SESQUITERPENONE	0,02
143	30,46	ALIPHATIC DIONE	0,04
144	30,53	AROMATIC COMPOUND	0,01
145	30,65	10-epi-gamma-EUDESOL	0,03
146	30,69	SESQUITERPENOL	0,02
147	30,91	EUDESMA-5-EN-11-alpha-OL	0,25
148	30,98	SESQUITERPENOL	0,02
149	31,23	EUDESOL ISOMER	0,13
150	29,72	2-PHENYLETHYL TIGLATE	0,04

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
151	29,86	SESQUITERPENONE	0,04
152	29,96	ALIPHATIC ESTER	0,01
153	30,01	SESQUITERPENOL	0,01
154	30,09	PENTADECANONE, TRIMETHYL-	0,04
155	30,32	EUDESMA-5-EN-11-alpha-OL	0,19
156	30,39	AROMATIC COMPOUND	0,04
157	30,63	EUDESMOL ISOMER	0,14
158	30,80	beta-BISABOLOL	0,23
159	32,44	COMPOUND Mw=250	0,04
160	31,09	7-epi-beta-EUDESMOL	0,08
161	31,22	gamma-EUDESMOL	0,08
162	32,67	T-CADINOL	0,02
163	31,41	SESQUITERPENOL	0,03
164	31,56	5-epi-7-epi-alpha-EUDESMOL	0,26
165	31,75	SESQUITERPENOL	0,04
166	31,84	SESQUITERPENOL	0,05
167	32,04	Epi-alpha-BISABOLOL	0,08
168	32,09	alpha-BISABOLOL	0,02
169	32,34	alpha-EUDESMOL	0,04
170	32,44	alpha-CADINOL	0,03
171	32,51	beta-EUDESMOL	0,06
172	32,86	ALIPHATIC ESTER	0,05
173	32,95	EUDESMA-7(11)-EN-4-OL	0,17
174	33,22	ALIPHATIC COMPOUND	0,02
175	33,62	BERGAMOTOL ISOMER	0,04
176	33,89	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,01
177	34,49	AROMATIC COMPOUND	0,02
178	35,01	SESQUITERPENIC COMPOUND	0,01
179	35,15	AROMATIC COMPOUND	0,05
180	35,29	TERPENIC COMPOUND	0,01
179	35,15	AROMATIC COMPOUND	0,05
180	35,29	TERPENIC COMPOUND	0,01

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
181	35,34	AROMATIC COMPOUND	0,02
182	35,52	BERGAMOTOL ISOMER	0,01
183	36,24	DITERPENE	0,01
184	36,58	TERPENIC COMPOUND	0,03
185	36,92	AROMATIC COMPOUND	0,03
186	37,56	TERPENIC COMPOUND	0,01
187	39,48	ALIPHATIC DIONE	0,01
188	39,96	ALIPHATIC DIONE	0,01
189	40,58	ALIPHATIC DIONE	0,02
190	40,63	ALIPHATIC DIONE	0,02
191	40,90	COMPOUND Mw=218	0,01
192	50,00	SQUALENE	0,01
		TOTAL	99,91

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