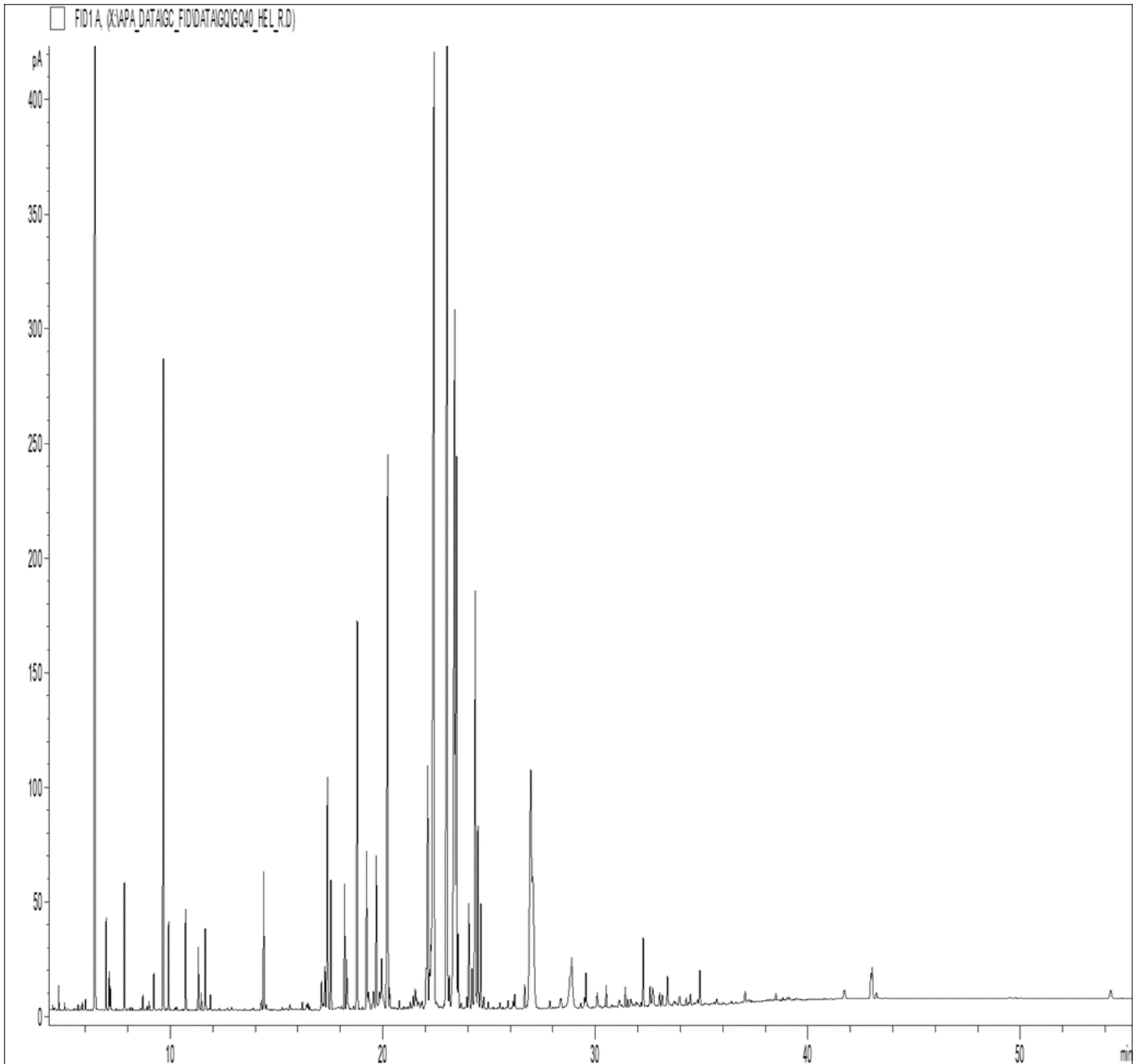


GCMS ANALYSIS

PRODUCT NAME: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

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: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

Peak	RT (min)	Compound name	%
1	4,75	2-HEPTENE, 2-METHYL-	0,10
2	5,03	NONANE	0,03
3	5,67	PROPANONE ISOMER	0,02
4	5,78	3-PENTANONE	0,02
5	5,86	BORNYLENE	0,04
6	6,01	3-PENTANONE, 2-METHYL-	0,05
7	6,47	<b>alpha-PINENE</b>	<b>24,08</b>
8	6,98	alpha-FENCHENE	0,38
9	7,12	CAMPHENE	0,17
10	7,18	3-HEXANONE, 4-METHYL-	0,10
11	7,85	beta-PINENE	0,57
12	8,72	beta-MYRCENE	0,07
13	8,92	alpha-PHELLANDRENE	0,02
14	9,01	ISOBUTYL 2-METHYLBUTYRATE	0,04
15	9,23	alpha-TERPINENE	0,18
16	9,68	<b>LIMONENE</b>	<b>3,37</b>
17	9,92	1,8-CINEOLE	0,41
18	10,72	gamma-TERPINENE	0,44
19	10,74	trans-beta-OCIMENE	0,05
20	11,32	p-CYMENE	0,32
21	11,46	2-METHYLBUTYL 2-METHYLBUTYRATE	0,08
22	11,64	TERPINOLENE	0,17
23	11,66	ISOBUTYL ANGELATE	0,25
24	11,88	TRIDECANE	0,08
25	14,28	2-NONANONE	0,07
26	14,40	2-METHYLBUTYL ANGELATE	0,74
27	14,51	TETRADECANE	0,04
28	15,63	METHYL-p-CRESOL	0,04
29	16,21	ALIPHATIC ESTER	0,04
30	16,41	NERYL OXIDE	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

Peak	RT (min)	Compound name	%
31	16,47	MENTHONE	0,04
32	16,56	ALIPHATIC ESTER	0,02
33	17,11	YLANGENE	0,19
34	17,18	SESQUITERPENE	0,04
35	17,27	alpha-ZIZANENE	0,30
36	17,39	<b>alpha-COPAENE</b>	<b>1,49</b>
37	17,56	ISOITALICENE	0,76
38	17,94	HEPTANE-3,5-DIONE, 2,4-DIMETHYL-	0,07
39	18,06	SATIVENE	0,04
40	18,20	LINALOOL	0,68
41	18,31	HEXYL ANGELATE ISOMER	0,30
42	18,37	alpha-GURJUNENE	0,05
43	18,62	BERGAMOTENE ISOMER	0,03
44	18,80	<b>ITALICENE</b>	<b>2,77</b>
45	19,24	<b>alpha-cis-BERGAMOTENE</b>	<b>1,06</b>
46	19,33	ITALICENE ISOMER	0,12
47	19,36	ITALICENE ISOMER	0,06
48	19,44	OCTANE-4,6-DIONE, 3,5-DIMETHYL-	0,52
49	19,50	CEDRENE ISOMER	0,03
50	19,56	ISOCARYOPHYLLENE	0,11
51	19,69	alpha-trans-BERGAMOTENE	0,92
52	19,84	2-UNDECANONE	0,05
53	19,94	TERPINENE-4-OL	0,24
54	20,23	<b>beta-CARYOPHYLLENE</b>	<b>4,42</b>
55	20,31	6,9-GUAIADIENE	0,14
56	20,48	SESQUITERPENE	0,02
57	20,58	COPACAMPHENE	0,02
58	20,77	SESQUITERPENE	0,06
59	20,97	epi-beta-SANTALENE	0,02
60	21,09	GERMACRENE A	0,03

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

Peak	RT (min)	Compound name	%
61	21,19	PREZIZA-7-ENE	0,03
62	21,29	trans-PINOCARVEOL	0,06
63	21,44	ALLO-AROMADENDRENE	0,12
64	21,53	E-beta-FARNESENE	0,17
65	21,59	CURCUMENE ISOMER	0,08
66	21,70	ZONARENE	0,11
67	21,80	SESQUITERPENE	0,04
68	21,85	COMPOUND Mw=134	0,07
69	22,04	alpha-HUMULENE	0,26
70	22,11	<b>gamma-SELINENE</b>	<b>1,88</b>
71	22,20	CURCUMENE ISOMER	0,28
72	22,26	4,5-di-epi-ARISTOLOCHENE	0,45
73	16,03	Z-beta-FARNESENE	0,01
74	22,41	alpha-TERPINEOL	<b>10,21</b>
75	16,33	<b>gamma-CURCUMENE</b>	0,14
76	22,52	SESQUITERPENE	0,07
77	22,57	GERANYL FORMIATE	0,04
78	22,70	SESQUITERPENE	0,05
79	22,88	SESQUITERPENE	0,04
80	23,02	<b>NERYL ACETATE</b>	<b>8,55</b>
81	23,13	EREMOPHILENE	0,25
82	23,26	SESQUITERPENE	0,16
83	23,38	<b>beta-SELINENE</b>	<b>7,03</b>
84	23,47	<b>alpha-SELINENE</b>	<b>4,20</b>
85	23,54	beta-CURCUMENE	0,47
86	23,68	SESQUITERPENE Mw=202	0,06
87	23,76	GERANYL ACETATE	0,02
88	23,95	SESQUITERPENE	0,08
89	24,05	delta-CADINENE	0,69
90	24,20	gamma-CADINENE	0,27

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

Peak	RT (min)	Compound name	%
91	24,34	7-epi-alpha-SELINENE	0,11
92	24,35	<b>alpha-CURCUMENE</b>	<b>2,89</b>
93	24,48	<b>NERYL PROPIONATE</b>	<b>1,10</b>
94	24,61	<b>NEROL</b>	<b>0,65</b>
95	24,74	CADINA-1,4-DIENE	0,09
96	24,96	alpha-AMORPHENE	0,05
97	25,52	trans-CALAMENENE	0,05
98	25,89	COMPOUND Mw=220	0,06
99	26,12	NERYL ISOBUTYRATE	0,06
100	26,21	NERYL 2-METHYLBUTYRATE	0,12
101	26,68	COMPOUND Mw=220	0,19
102	26,96	<b>ITALIDIONE I</b>	<b>3,73</b>
103	27,05	<b>ITALIDIONE II</b>	<b>1,97</b>
104	27,85	alpha-CALACORENE	0,05
105	28,38	ITALIDIONE ISOMER	0,15
106	28,52	<b>ITALIDIONE III</b>	<b>1,02</b>
107	28,89	NERYL VALERATE	0,18
108	29,32	ALIPHATIC DIONE	0,04
109	29,49	NERYL METHYLVALERATE	0,07
110	29,56	CARYOPHYLLENE OXIDE	0,24
111	29,63	SESQUITERPENIC EPOXIDE	0,02
112	30,09	NEROLIDOL	0,14
113	30,43	EPOXY-6,7-HUMULENE	0,02
114	30,51	NERYL CAPROATE	0,13
115	30,77	CARYOPHYLLENOL	0,03
116	31,12	CUBENOL	0,03
117	31,14	SESQUITERPENOL	0,06
118	31,25	GERANYL TIGLATE	0,02
119	31,41	GUAJOL	0,13
120	31,52	COMPOUND Mw=235	0,05

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

Peak	RT (min)	Compound name	%
121	31,66	2-PHENYLETHYL TIGLATE	0,07
122	31,71	COMPOUND Mw=218	0,03
123	31,80	ALIPHATIC DIONE	0,03
124	31,92	10-epi-gamma-EUDESOL	0,03
125	31,97	SESQUITERPENOL	0,03
126	32,16	ALIPHATIC ESTER	0,03
127	32,25	EUDESMA-5-EN-11-alpha-OL	0,46
128	32,57	EUDESOL ISOMER	0,16
129	32,69	beta-BISABOLOL	0,12
130	32,71	COMPOUND Mw=250	0,11
131	33,03	7-epi-beta-EUDESOL	0,10
132	33,14	gamma-EUDESOL	0,10
133	33,39	5-epi-7-epi-alpha-EUDESOL	0,23
134	33,70	SESQUITERPENOL	0,06
135	33,79	AROMATIC COMPOUND	0,04
136	33,96	BULNESOL	0,05
137	33,97	alpha-BISABOLOL	0,06
138	34,28	alpha-EUDESOL	0,05
139	34,39	SESQUITERPENOL	0,03
140	34,48	beta-EUDESOL	0,08
141	34,63	FARNESYL ACETATE	0,02
142	34,81	CAPRIC ACID	0,06
143	34,92	EUDESMA-7(11)-EN-4-OL	0,23
144	35,61	SESQUITERPENOL	0,03
145	35,72	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,05
146	36,41	SESQUITERPENIC EPOXIDE	0,02
147	37,05	ALIPHATIC DIONE	0,12
148	37,24	AROMATIC COMPOUND	0,02
149	38,50	ALIPHATIC DIONE	0,06
150	38,83	ALIPHATIC DIONE	0,03

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM (SLOVENIA) ESSENTIAL OIL – 11068

Peak	RT (min)	Compound name	%
151	39,05	LAURIC ACID	0,03
152	39,14	ALIPHATIC DIONE	0,03
153	39,46	ALIPHATIC DIONE	0,02
154	41,70	ALIPHATIC DIONE	0,07
155	41,74	ALIPHATIC DIONE	0,07
156	42,96	ALIPHATIC DIONE	0,20
157	43,03	ALIPHATIC DIONE	0,30
158	43,23	ALIPHATIC DIONE	0,07
159	54,26	SQUALENE	0,13
		<b>TOTAL</b>	<b>99,14</b>

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