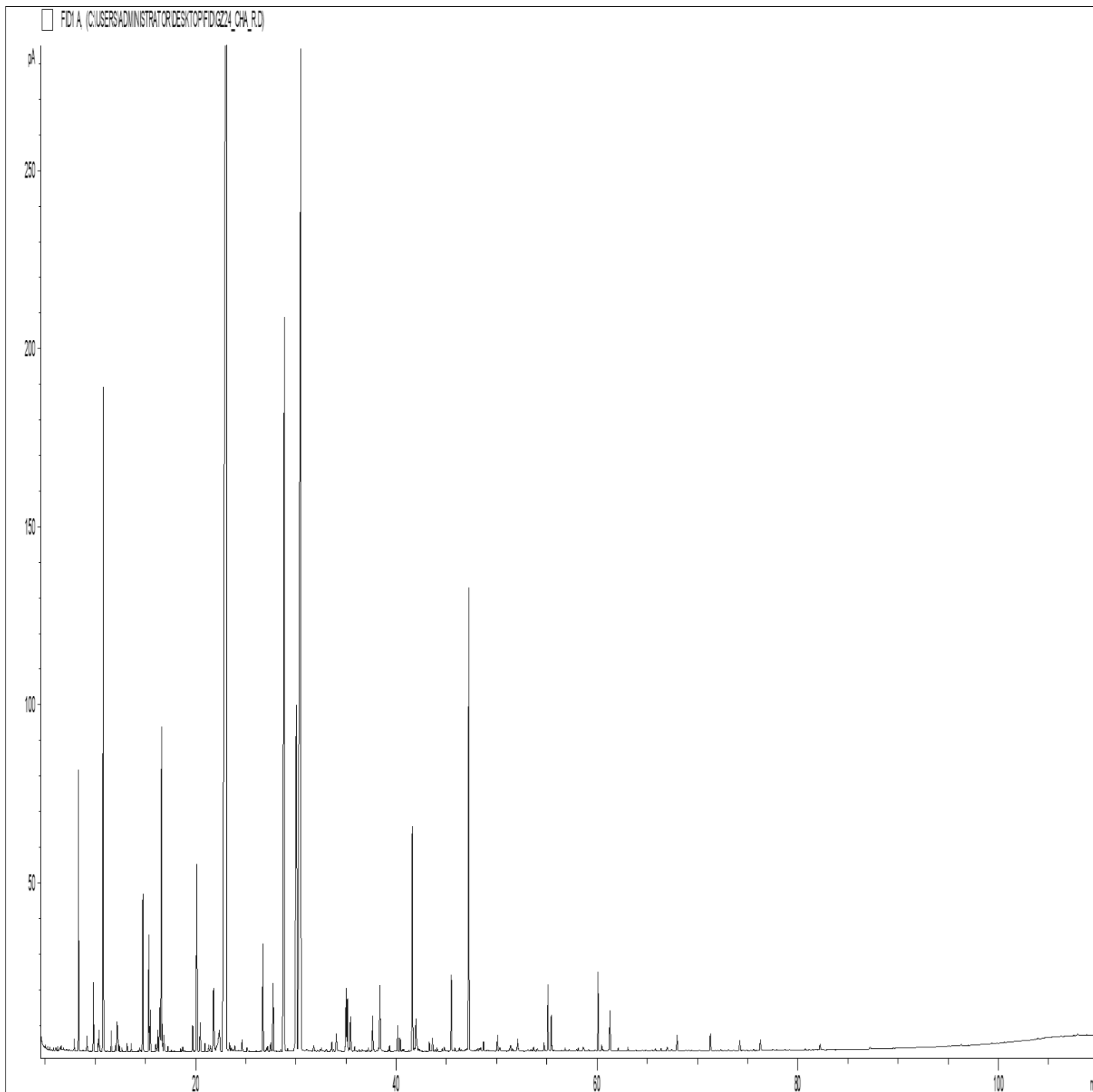


GCMS ANALYSIS

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343

DATE: March 01, 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: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343

Peak	RT (min)	Compound name	%
1	6,07	ISOVALERALDEHYDE	0,02
2	6,26	2-PENTANONE	0,02
3	6,58	FURAN, 2-ETHYL-	0,02
4	7,88	ISOBUTYL ACETATE	0,06
5	8,33	<b>alpha-PINENE</b>	<b>1,44</b>
6	9,18	PROPYL ISOBUTYRATE	0,09
7	9,82	CAMPHENE	0,42
8	10,28	ISOBUTYL PROPIONATE	0,06
9	10,37	ISOBUTANOL	0,16
10	10,82	<b>ISOBUTYL ISOBUTYRATE</b>	<b>4,57</b>
11	11,59	beta-PINENE	0,14
12	12,01	METHYL ANGELATE	0,04
13	12,16	ISOAMYL ACETATE	0,20
14	12,22	SABINENE	0,20
15	12,38	PINADIENE	0,05
16	12,67	PROPYL 2-METHYL-2-PROPANOATE	0,03
17	13,16	PROPYL 2-METHYLBUTYRATE	0,06
18	13,58	BUTYL ISOBUTYRATE	0,06
19	14,43	ETHYL ANGELATE	0,03
20	14,54	beta-MYRCENE	0,01
21	14,75	<b>ISOBUTYL METHACRYLATE</b>	<b>1,12</b>
22	15,34	ISOBUTYL 2-METHYLBUTYRATE	0,86
23	15,48	PENTANE, 3,3-DIMETHYL ESTER	0,28
24	16,03	2-PENTYL PROPIONATE	0,06
25	16,22	ISOBUTYL ISOVALERATE	0,17
26	16,43	<b>ISOAMYL ISOBUTYRATE</b>	<b>0,37</b>
27	16,61	<b>2-METHYLBUTYL ISOBUTYRATE</b>	<b>2,69</b>
28	16,69	LIMONENE	0,14
29	16,84	ISOAMYLIC ALCOHOL	0,11
30	16,87	1-BUTANOL, 2-METHYL-	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343

Peak	RT (min)	Compound name	%
31	17,24	1,8-CINEOLE	0,04
32	17,58	2-HEXENAL	0,02
33	18,50	BUTYL METHACRYLATE	0,03
34	18,73	FURAN, 2-PENTYL-	0,04
35	19,72	PRENYL ACETATE	0,21
36	20,11	ISOPROPYL ANGELATE	1,47
37	20,46	ALLYL METHACRYLATE	0,22
38	20,93	3-HEPTANONE, 2,6-DIMETHYL-	0,07
39	21,31	p-CYMENE	0,06
40	21,46	3-PENTEN-2-OL	0,05
41	21,79	<b>2-METHYLBUTYL METHACRYLATE</b>	<b>0,67</b>
42		<b>ISOAMYL METHACRYLATE</b>	
43	22,30	2-METHYLBUTYL 2-METHYLBUTYRATE	0,14
44	22,38	ISOAMYL 2-METHYLBUTYRATE	0,30
45	23,08	<b>ISOBUTYL ANGELATE</b>	<b>35,78</b>
46	23,39	AMYL ISOVALERATE	0,06
47	23,57	ISOBUTYL CAPROATE	0,03
48	23,75	ALIPHATIC ESTER	0,01
49	23,89	HEXYL ISOBUTYRATE	0,05
50	24,28	ALIPHATIC ESTER	0,01
51	24,63	ALIPHATIC ESTER	0,09
52	25,12	ALIPHATIC ESTER	0,04
53	26,03	ALIPHATIC ESTER	0,01
54	26,71	BUTYL ANGELATE	0,85
55	26,96	ALIPHATIC ESTER	0,01
56	27,07	ALIPHATIC ESTER	0,03
57	27,18	ISOBUTYL TIGLATE	0,05
58	27,48	ALIPHATIC ESTER	0,07
59	27,72	BUTYL TIGLATE	0,53
60	28,49	alpha-PINENE OXIDE	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343

Peak	RT (min)	Compound name	%
61	28,83	<b>METHALLYL ANGELATE</b>	<b>8,57</b>
62	29,17	3-HEXEN-1-OL	0,03
63	29,83	ALIPHATIC ESTER	0,02
64	30,05	<b>ISOAMYL ANGELATE</b>	<b>4,97</b>
65	30,49	<b>2-METHYLBUTYL ANGELATE</b>	<b>16,89</b>
66	31,12	ALIPHATIC ESTER	0,02
67	31,77	ALIPHATIC ESTER	0,05
68	32,12	ALIPHATIC ESTER	0,01
69	32,39	SILPHIPERFOL-7-ENE	0,02
70	32,53	ALIPHATIC ESTER	0,03
71	32,95	ALIPHATIC ESTER	0,01
72	33,05	ALIPHATIC ALCOHOL	0,02
73	33,52	ALIPHATIC ESTER	0,02
74	33,58	ALIPHATIC ESTER	0,09
75	33,75	ALIPHATIC ESTER	0,02
76	34,03	ALIPHATIC ESTER	0,15
77	34,23	1-OCTEN-3-OL	0,01
78	34,90	ALIPHATIC ESTER	0,04
79	35,01	ALIPHATIC ESTER	0,52
80	35,14	ALIPHATIC ESTER	0,42
81	35,29	ALIPHATIC ESTER	0,03
82	35,44	ALIPHATIC ESTER	0,30
83	35,57	ALIPHATIC ESTER	0,01
84	35,85	ALIPHATIC ESTER	0,05
85	36,29	ISOLEDENE	0,02
86	36,59	SESQUITERPENE	0,02
87	37,05	alpha-COPAENE	0,01
88	37,23	ALIPHATIC ESTER	0,03
89	37,48	SESQUITERPENE	0,01
90	37,64	METHYLAMYL ANGELATE	0,29

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343

Peak	RT (min)	Compound name	%
91	37,70	ALIPHATIC ESTER	0,03
92	38,23	ALIPHATIC ESTER	0,03
93	38,36	METHYLPENTYL METHACRYLATE ISOMER	0,51
94	38,47	PINOCAMPHONE	0,03
95	39,18	ALIPHATIC ESTER	0,02
96	39,33	ALIPHATIC ESTER	0,05
97	40,14	ISOPINOCAMPHONE	0,23
98	40,38	ALIPHATIC ESTER	0,11
99	40,62	ALIPHATIC ESTER	0,02
100	40,74	TERPENIC KETONE	0,02
101	41,60	<b>PINOCARVONE</b>	<b>2,05</b>
102	41,82	NOPINONE	0,03
103	41,97	ALIPHATIC ESTER	0,30
104	42,05	IONONE ISOMER	0,08
105	42,31	ALIPHATIC ESTER	0,02
106	43,28	ALIPHATIC ESTER	0,08
107	43,61	CAMPHENE HYDRATE	0,11
108	43,87	IRONE ISOMER	0,02
109	44,06	TERPINENE-4-OL	0,03
110	44,59	ALIPHATIC ESTER	0,03
111	44,78	ALIPHATIC ESTER	0,04
112	45,48	MYRTENAL	0,69
113	45,84	ALIPHATIC ESTER	0,03
114	46,30	cis-PINOCARVYL ACETATE	0,04
115	46,46	ALIPHATIC ESTER	0,02
116	46,85	ALIPHATIC ESTER	0,01
117	46,91	trans-PINOCARVYL ACETATE	0,02
118	47,03	cis-VERBENOL	0,02
119	47,23	trans-PINOCARVEOL	4,43
120	47,42	ALIPHATIC ESTER	0,02

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343**

Peak	RT (min)	Compound name	%
121	48,69	<b>trans-VERBENOL</b>	<b>0,08</b>
122	49,07	ALIPHATIC ESTER	0,01
123	50,07	BORNEOL	0,14
124	50,34	ALIPHATIC ALCOHOL	0,03
125	51,24	ALIPHATIC ESTER	0,01
126	51,35	beta-SELINENE	0,02
127	51,40	AROMATIC COMPOUND	0,06
128	51,59	ALIPHATIC ALCOHOL	0,03
129	52,08	KETONIC COMPOUND	0,11
130	53,11	ALIPHATIC ESTER	0,01
131	53,39	ALIPHATIC ESTER	0,02
132	53,52	delta-CADINENE	0,01
133	53,69	E,E-alpha-FARNESENE	0,04
134	54,04	GERANYL ACETATE	0,03
135	54,71	alpha-CURCUMENE	0,07
136	54,90	TIGLIC ACID	0,01
137	55,11	ISOBUTYL 3-HYDROXY-2-METHYLENEBUTYRATE	0,59
138	55,45	MYRTENOL	0,33
139	55,74	ALIPHATIC ESTER	0,02
140	56,83	2,4-DECADIENAL	0,03
141	57,25	ALIPHATIC ESTER	0,02
142	57,96	trans-CARVEOL	0,02
143	58,16	ALIPHATIC ESTER	0,03
144	58,62	ALIPHATIC ESTER	0,03
145	58,65	KETONIC COMPOUND	0,03
146	59,18	GERANYLLINALOOL ISOMER	0,02
147	59,89	ALIPHATIC ESTER	0,01
148	60,11	2-HYDROXY-2-METHYLBUT-3-ENYL ANGELATE	0,63
149	60,46	ALIPHATIC ESTER	0,05
150	60,60	ALIPHATIC ESTER	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (FRANCE) – 11343

Peak	RT (min)	Compound name	%
151	61,16	ALIPHATIC ESTER	0,01
152	61,30	ISOPENTYL 3-HYDROXY-2-METHYLENEBUTYRATE	0,36
153	62,14	MENTHATRIENIC COMPOUND	0,03
154	63,09	MENTHATRIENIC COMPOUND	0,03
155	63,86	ALIPHATIC ESTER	0,01
156	64,51	ALIPHATIC ALCOHOL	0,01
157	65,51	ALIPHATIC ALCOHOL	0,01
158	65,82	MENTHATRIENIC COMPOUND	0,02
159	66,37	CARYOPHYLLENE OXIDE	0,02
160	66,99	ALIPHATIC ESTER	0,04
161	67,45	ALIPHATIC ESTER	0,02
162	67,98	COMPOUND Mw=222	0,15
163	69,15	ALIPHATIC ALCOHOL	0,01
164	70,23	ALIPHATIC ALCOHOL	0,01
165	71,29	COMPOUND Mw=166	0,15
166	72,31	ALIPHATIC ALCOHOL	0,02
167	74,22	PENTADECANONE, TRIMETHYL-	0,08
168	75,60	ACID COMPOUND	0,02
169	76,28	5-epi-7-epi-alpha-EUDESOL	0,10
170	80,74	ACID COMPOUND	0,01
171	82,23	MATRICARIA ESTER	0,05
172	87,21	MYRTENOIC ACID	0,02
173	96,27	PHYTOL	0,01
174	103,96	SESQUITERPENIC EPOXIDE	0,01
175	107,89	PALMITIC ACID	0,02
		<b>TOTAL</b>	<b>99,91</b>

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