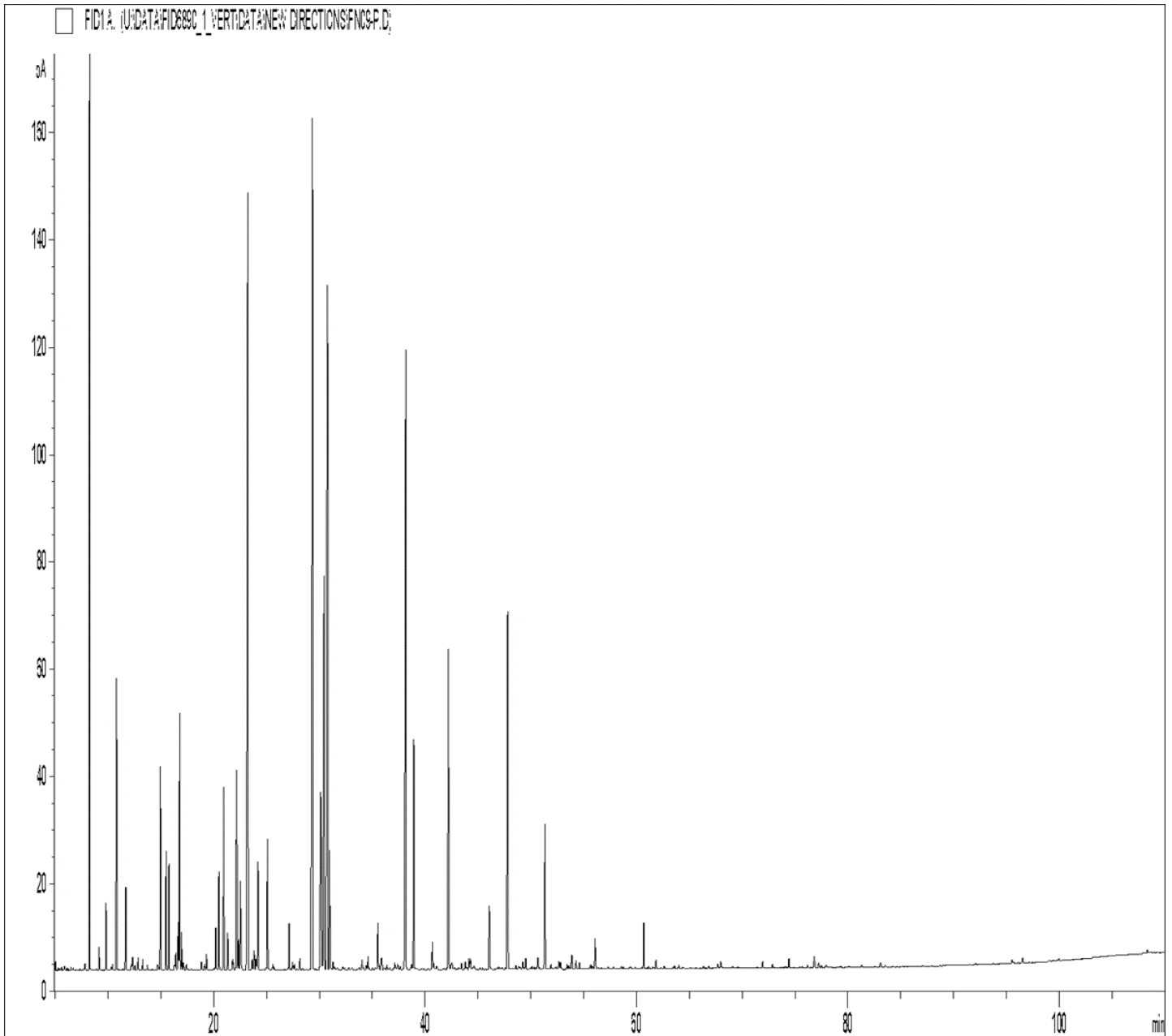


GCMS ANALYSIS

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

DATE: March 18, 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 (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
1	5,03	1-OCTENE	0,03
2	5,60	FURAN, 2-METHYL-	0,01
3	5,87	BUTANAL, 2-METHYL-	0,02
4	5,92	ISOVALERALDEHYDE	0,02
5	6,12	2-PENTANONE	0,01
6	6,26	1-NONENE	0,01
7	6,48	FURAN, 2-ETHYL-	0,02
8	6,71	3-PENTEN-2-ONE	0,01
9	7,76	METHYL 2-METHYLBUTYRATE	0,01
10	7,83	ISOBUTYL ACETATE	0,04
11	8,26	<b>alpha-PINENE</b>	<b>6,78</b>
12	9,16	PROPYL ISOBUTYRATE	0,17
13	9,82	CAMPHENE	0,52
14	10,32	ISOBUTYL PROPIONATE	0,02
15	10,44	ISOBUTANOL	0,05
16	10,81	ISOBUTYL ISOBUTYRATE	2,29
17	11,68	beta-PINENE	0,69
18	12,22	METHYL ANGELATE	0,04
19	12,32	ISOAMYL ACETATE	0,08
20	12,35	SABINENE	0,10
21	12,54	THUYADIENE	0,04
22	12,85	PROPYL METHACRYLATE	0,11
23	13,29	AMYL PROPIONATE	0,09
24	13,73	BUTYL ISOBUTYRATE	0,04
25	14,70	ETHYL ANGELATE	0,05
26	14,73	beta-MYRCENE	0,04
27	14,97	ISOBUTYL METHACRYLATE	1,86
28	15,50	ISOBUTYL 2-METHYLBUTYRATE	1,10
29	15,77	PENTANE, 3,3-DIMETHYL-	0,97
30	16,27	2-PENTYL PROPIONATE	0,05

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
31	16,40	ISOBUTYL ISOVALERATE	0,20
32	16,62	AMYL ISOBUTYRATE	0,49
33	16,77	<b>ISOAMYL ISOBUTYRATE</b>	<b>2,50</b>
34	16,93	LIMONENE	0,32
35	17,12	ISOAMYL ALCOHOL	0,09
36	17,41	1,8-CINEOLE	0,06
37	17,85	ALIPHATIC ESTER	0,01
38	18,82	BUTYL METHACRYLATE	0,07
39	19,14	FURAN, 2-PENTYL-	0,05
40	19,30	ALIPHATIC ESTER	0,15
41	20,18	PRENYL ACETATE	0,44
42	20,48	ISOPROPYL ANGELATE	0,97
43	20,92	ALLYL METHACRYLATE	1,79
44	21,31	3-HEPTANONE, 2,6-DIMETHYL-	0,38
45	21,76	p-CYMENE	0,11
46	21,84	3-PENTEN-2-OL	0,06
47	22,15	<b>2-METHYLBUTYL METHACRYLATE</b>	<b>2,83</b>
48	22,32	2-METHYLBUTYL 2-METHYLBUTYRATE	0,31
49	22,52	ISOAMYL 2-METHYLBUTYRATE	1,02
50	23,22	<b>ISOBUTYL ANGELATE</b>	<b>10,57</b>
51		ISOAMYL METHACRYLATE	
52	23,62	AMYL ISOVALERATE	0,11
53	23,80	ISOBUTYL CAPROATE	0,20
54	23,98	ALIPHATIC ESTER	0,11
55	24,17	HEXYL ISOBUTYRATE	1,13
56	25,07	ISOPRENYL ISOVALERATE	1,37
57	25,58	1-PENTANOL, 3-METHYL-	0,07
58	25,73	ALIPHATIC ESTER	0,02
59	27,12	BUTYL ANGELATE	0,47
60	27,45	ALIPHATIC ESTER	0,09

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
61	27,63	ISOBUTYL TIGLATE ISOMERE	0,06
62	28,13	ISOBUTYL TIGLATE	0,13
63	29,32	<b>METHALLYL ANGELATE</b>	<b>11,40</b>
64	29,58	ALIPHATIC ESTER	0,02
65	30,11	<b>3-METHYLPENTYL METHACRYLATE</b>	<b>2,59</b>
66	30,41	<b>ISOAMYL ANGELATE</b>	<b>4,90</b>
67	30,75	<b>2-METHYLBUTYL ANGELATE</b>	<b>9,23</b>
68	30,96	2-METHYLBUTYLE CAPROATE	1,28
69	31,28	ALIPHATIC ESTER	0,09
70	31,40	ALIPHATIC ESTER	0,04
71	32,18	ALIPHATIC ESTER	0,05
72	32,35	ALIPHATIC ESTER	0,02
73	32,72	COMPOUND Mw=152	0,02
74	32,78	ALIPHATIC ESTER	0,02
75	33,05	ALIPHATIC ESTER	0,03
76	33,74	ARTEMISIA KETONE ISOMER	0,03
77	34,02	HEXYL ANGELATE	0,11
78	34,07	ALIPHATIC ESTER	0,03
79	34,44	1-OCTEN-3-OL	0,05
80	34,58	ALIPHATIC ESTER	0,14
81	35,00	ALIPHATIC ESTER	0,02
82	35,51	ARTEMISIA KETONE	0,49
83	35,62	ALIPHATIC ESTER	0,04
84	35,86	ALIPHATIC ESTER	0,18
85	36,08	SILPHINENE	0,03
86	36,38	METHYLPENTYL METHACRYLATE ISOMER	0,05
87	36,65	CYCLOSATIVENE	0,03
88	37,11	alpha-CAMPHOLENAL	0,09
89	37,39	alpha-COPAENE	0,08
90	37,65	ALIPHATIC ESTER	0,04

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
91	38,16	<b>METHYLAMYL ANGELATE</b>	<b>8,70</b>
92	38,62	ALIPHATIC ESTER	0,03
93	38,73	alpha-PINOCAMPHONE	0,07
94	38,92	METHYLPENTYL METHACRYLATE	2,43
95	39,20	ALIPHATIC ESTER	0,03
96	39,61	ALIPHATIC ESTER	0,02
97	40,25	ALIPHATIC ESTER	0,01
98	40,67	beta-PINOCAMPHONE	0,32
99	40,80	HEXYL ANGELATE ISOMER	0,06
100	41,07	LINALOOL	0,04
101	41,75	LINALYL ACETATE	0,02
102	42,19	<b>PINOCARVONE</b>	<b>3,85</b>
103	42,44	ALIPHATIC ESTER	0,06
104	42,54	ALIPHATIC ESTER	0,09
105	42,78	ALIPHATIC ESTER	0,03
106	43,15	epsilon-CADINENE	0,02
107	43,43	BORNYL ACETATE	0,06
108	43,79	ALIPHATIC ESTER	0,09
109	43,90	ALIPHATIC ESTER	0,04
110	44,13	CAMPHENE HYDRATE	0,12
111	44,26	beta-CARYOPHYLLENE	0,13
112	44,62	TERPINENE-4-OL	0,06
113	45,17	ALIPHATIC ESTER	0,02
114	45,41	ALIPHATIC ESTER	0,02
115	46,06	MYRTENAL	0,77
116	46,76	SESQUITERPENE	0,02
117	46,94	cis-p-2,8-MENTHADIEN-1-OL	0,03
118	47,10	ACETATE DE cis-PINOCARVYLE	0,02
119	47,28	ALIPHATIC ESTER	0,03
120	47,58	cis-VERBENOL	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
121	47,79	trans-PINOCARVEOL	4,27
122	48,59	ALIPHATIC ESTER	0,04
123	48,84	trans-VERBENOL	0,04
124	48,98	ALIPHATIC ESTER	0,02
125	49,22	alpha-HUMULENE	0,10
126	49,50	E-beta-FARNESENE	0,12
127	50,09	gamma-MUUROLENE	0,04
128	50,65	BORNEOL	0,15
129	51,32	GERMACRENE D	1,77
130	51,89	beta-SELINENE	0,08
131	52,38	BENZYL ACETATE	0,06
132	52,65	alpha-MUUROLENE	0,11
133	52,78	BICYCLOGERMACRENE	0,10
134	53,43	SESQUITERPENE Mw=202	0,06
135	53,61	ALIPHATIC ALCOHOL	0,04
136	53,86	E,E-alpha-FARNESENE	0,17
137	54,26	delta-CADINENE	0,13
138	54,60	gamma-CADINENE	0,07
139	55,67	ISOBUTYL 3-HYDROXY-2-METHYLENEBUTYRATE	0,07
140	55,83	TIGLIC ACID	0,04
141	56,07	MYRTENOL	0,35
142	56,67	SABINOL ISOMER	0,03
143	57,28	2,4-DECADIENAL	0,04
144	57,83	beta-DAMASCENONE	0,04
145	58,56	trans-CARVEOL	0,04
146	58,74	OCTYL TIGLATE	0,04
147	59,35	COMPOUND Mw=164	0,03
148	59,45	MYRTENIC ESTER	0,03
149	60,67	2-HYDROXY-2-METHYLBUT-3-ENYL ANGELATE	0,51
150	61,11	2-PHENYLETHYL VALERATE	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
151	61,25	ALIPHATIC ESTER	0,01
152	61,52	BENZYL METHACRYLATE	0,02
153	61,66	2-METHYLPROPYL BENZENE ACETATE	0,01
154	61,84	ISOPENTYL 3-HYDROXY-2-METHYLENEBUTYRATE	0,11
155	62,32	ALIPHATIC ESTER	0,02
156	62,61	MENTHATRIENIC COMPOUND	0,04
157	63,46	TERPENIC ESTER	0,02
158	63,58	GERANYL METHYLBUTYRATE	0,03
159	63,99	beta-IONONE	0,05
160	64,35	PHYTYL ACETATE	0,02
161	66,33	AROMATIC COMPOUND	0,03
162	66,84	CARYOPHYLLENE EPOXIDE	0,02
163	67,69	BENZYL TIGLATE	0,06
164	67,96	ALIPHATIC ESTER	0,10
165	68,38	METHYLEUGENOL	0,01
166	69,09	1-(2-METHOXYPHENYL)-2,5-DIHYDRO-1H-PYRROLE-2,5-DIONE	0,02
167	71,92	COMPOUND Mw=166	0,07
168	72,85	SPATHULENOL	0,05
169	74,42	PENTADECANONE, TRIMETHYL-	0,10
170	75,41	AROMATIC COMPOUND	0,02
171	75,67	COMPOUND Mw=220	0,01
172	76,17	ACID COMPOUND	0,03
173	76,81	EUDESMA-5-EN-11-alpha-OL	0,15
174	77,23	AROMATIC COMPOUND Mw=290	0,06
175	77,47	AROMATIC COMPOUND	0,03
176	77,95	AROMATIC COMPOUND Mw=290	0,04
177	80,09	SESQUITERPENIC EPOXIDE	0,02
178	81,29	AROMATIC COMPOUND	0,03
179	83,09	SESQUITERPENIC EPOXIDE	0,07
180	83,54	SESQUITERPENIC EPOXIDE	0,02

GCMS ANALYSIS (cont'd,)

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PRODUCT NAME: CHAMOMILE ROMAN ESSENTIAL OIL (CHINA) - 11342

Peak	RT (min)	COMPONENT name	%
181	87,06	AROMATIC COMPOUND	0,01
182	92,09	TRICOSANE	0,01
183	93,73	PENTACOSANE	0,01
184	95,51	6-METHYL-2-ACETONAPHTONE Mw=184	0,05
185	95,63	COMPOUND Mw=218	0,02
186	96,11	DITERPENIC COMPOUND	0,02
187	96,52	PHYTOL	0,06
188	99,95	DIBUTYL PHTHALATE	0,03
189	108,32	PALMITIC ACID	0,05
		<b>TOTAL</b>	<b>99,90</b>

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