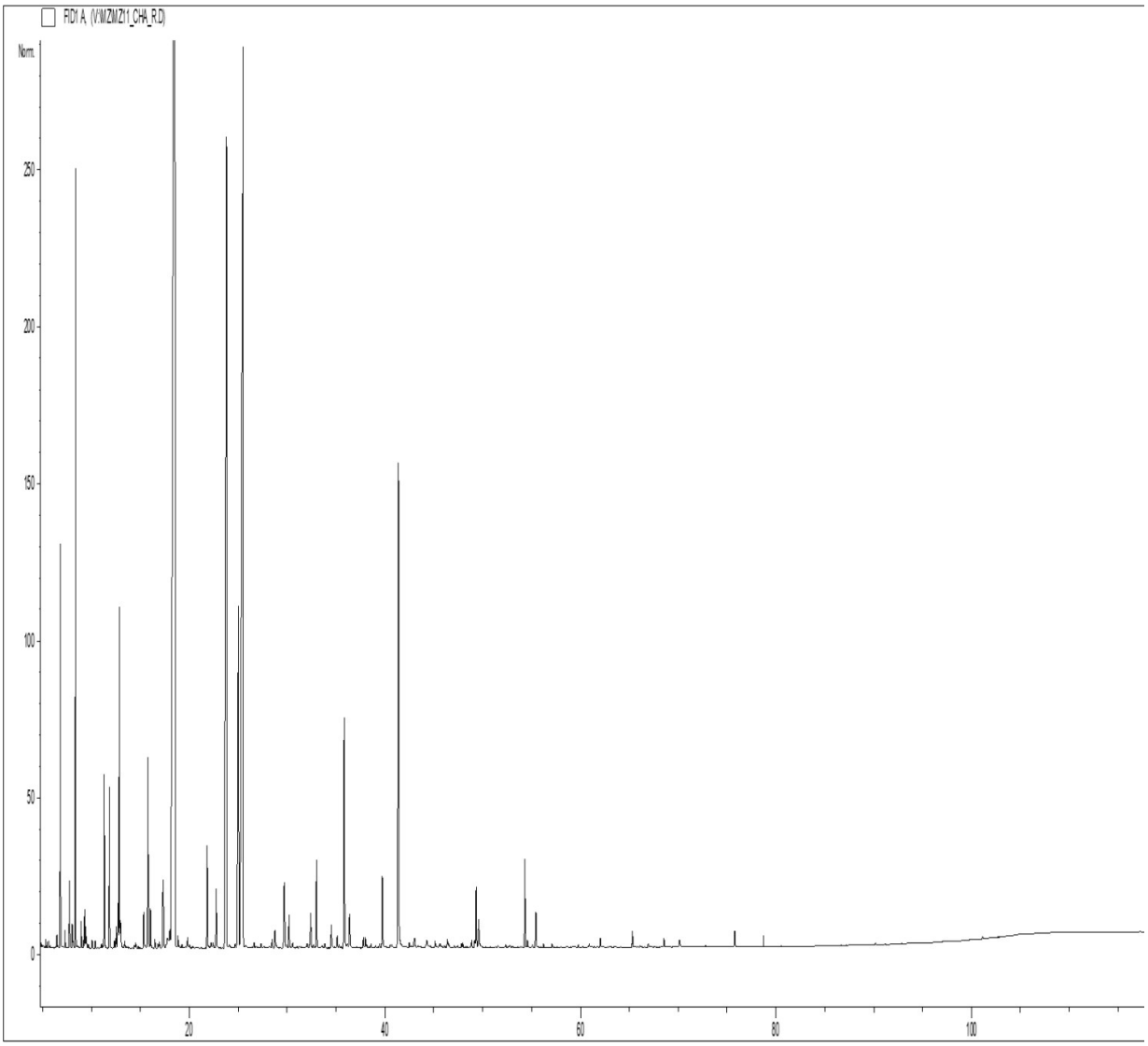
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Roman Chamomile Essential Oil
Botanical Name	Anthemis nobilis
Analysis Date	January 14, 2025

Note: This GC/MS report is a representative analysis of this product. Due to volume turnover, it is not specific to an individual lot; specific lots may vary slightly, as is the case with natural products. The lot-specific quality document for each batch is its Certificate of Analysis.

Chromatogram



Identified Compounds

Peak	RT (min)	Compound name	%
1	5.34	ISOVALERALDEHYDE	0.05
2	5.47	2-PENTANONE	0.02
3	5.64	FURAN, 2-ETHYL-	0.03
4	6.47	ISOBUTYL ACETATE	0.07
5	6.56	TRICYCLENE	0.01
6	6.82	alpha-PINENE	1.79
7	7.30	PROPYL ISOBUTYRATE	0.09
8	7.76	CAMPHENE	0.36
9	8.02	ISOBUTANOL	0.15
10	8.12	ALIPHATIC ESTER	0.06
11	8.39	ISOBUTYL ISOBUTYRATE	4.27
12	8.94	beta-PINENE	0.16
13	9.17	METHYL ANGELATE	0.05
14	9.28	2-METHYLBUTYL ACETATE	0.28
15	9.41	SABINENE	0.14
16	9.47	PINADIENE	0.06
17	9.67	ALIPHATIC ESTER	0.03
18	10.05	PROPYL METHACRYLATE	0.05
19	10.37	PROPYL 2-METHYLBUTYRATE	0.05

20	11.01	ALIPHATIC ESTER	0.03
21	11.15	beta-MYRCENE	0.02
22	11.29	ISOBUTYL METHACRYLATE	1.11
23	11.81	ISOBUTYL 2-METHYLBUTYRATE	1.09
24		ISOBUTYRIC ANHYDRID	
25	12.33	AMYL PROPIONATE	0.06
26	12.52	ISOBUTYL ISOVALERATE	0.16
27	12.68	ISOAMYL ISOBUTYRATE	0.34
28	12.85	2-METHYLBUTYL ISOBUTYRATE	2.57
29	12.94	LIMONENE	0.29
30	13.38	1,8-CINEOLE	0.06
31	13.57	ALIPHATIC ESTER	0.01
32	14.39	ALIPHATIC ESTER	0.03
33	14.51	FURAN, 2-PENTYL-	0.04
34	14.77	ALIPHATIC ESTER	0.01
35	15.32	ALIPHATIC ESTER	0.26
36	15.47	ALIPHATIC ESTER	0.04
37	15.77	ISOPROPYL ANGELATE	1.42
38	16.02	ALLYL METHACRYLATE	0.33
39	16.46	ALIPHATIC ESTER	0.08
40	16.79	p-CYMENE	0.05
41	16.94	3-PENTEN-2-OL	0.05
42	17.32	2-METHYLBUTYL METHACRYLATE	0.72
43		ISOAMYL METHACRYLATE	
44	17.61	ALIPHATIC ESTER	0.04
45	17.77	ISOAMYL ISOVALERATE	0.19
46	18.00	2-METHYLBUTYL 2-METHYLBUTYRATE	0.27
47	18.52	ISOBUTYL ANGELATE	33.44
48	18.82	AMYL ISOVALERATE	0.10
49	18.96	ALIPHATIC ESTER	0.02
50	19.11	ALIPHATIC ESTER	0.01
51	19.25	ALIPHATIC ESTER	0.03
52	19.60	ALIPHATIC ESTER	0.02
53	19.74	ALIPHATIC ESTER	0.02
54	19.82	ISOPRENYL ISOVALERATE	0.08
55	19.93	ALIPHATIC ESTER	0.01
56	20.01	ALIPHATIC ESTER	0.03
57	20.31	TRIDECANE	0.03
58	21.82	BUTYL ANGELATE	0.79
59	21.99	ALIPHATIC ESTER	0.02
60	22.20	ISOBUTYL TIGLATE	0.08
61	22.43	ALIPHATIC ESTER	0.05
62	22.75	BUTYL TIGLATE	0.50
63	23.79	METHALLYL ANGELATE	10.13
64	24.06	3-HEXEN-1-OL	0.07
65	24.67	KETONIC COMPOUND	0.05
66	25.02	ISOAMYL ANGELATE	4.61
67	25.49	2-METHYLBUTYL ANGELATE	16.66
68	25.79	ALIPHATIC ESTER	0.06
69	26.42	ALIPHATIC ESTER	0.02
70	26.61	ALIPHATIC ESTER	0.05
71	26.76	ALIPHATIC ESTER	0.02
72	26.98	ALIPHATIC ESTER	0.02

73	27.32	SILPHIPERFOL-7-ENE	0.05
74	27.61	ALIPHATIC ESTER	0.02
75	28.14	KETONIC COMPOUND	0.02
76	28.25	ALIPHATIC ESTER	0.01
77	28.45	ALIPHATIC ESTER	0.07
78	28.75	ARTEMISIA CETONE ISOMER	0.21
79	29.32	TERPENIC COMPOUND	0.01
80	29.73	ALIPHATIC ESTER	0.88
81		ARTEMISIA CETONE ISOMER	
82	29.96	ALIPHATIC ESTER	0.04
83	30.18	ALIPHATIC ESTER	0.29
84	30.56	METHYLAMYL METHACRYLATE ISOMER	0.06
85	31.00	ISOLEDENE	0.02
86	31.22	alpha-CAMPHOLENAL	0.03
87	31.47	TERPENIC COMPOUND	0.02
88	31.91	TERPENIC COMPOUND	0.02
89	32.04	SESQUITERPENE	0.05
90	32.29	ALIPHATIC ESTER	0.02
91	32.40	METHYLAMYL ANGELATE	0.28
92	32.70	PINOCAMPHONE	0.04
93	32.99	METHYLAMYL METHACRYLATE ISOMER	0.69
94	33.59	TERPENIC COMPOUND	0.03
95	33.85	TERPENIC COMPOUND	0.04
96	34.50	ISOPINOCAMPHONE	0.25
97	35.11	HEXYL ANGELATE ISOMER	0.11
98	35.29	ALCOHOL COMPOUND	0.03
99	35.49	ALCOHOL COMPOUND	0.02
100	35.83	PINOCARVONE	2.00
101	36.14	NOPINONE	0.05
102	36.38	ALIPHATIC ESTER	0.44
103	37.08	ALIPHATIC ESTER	0.02
104	37.80	ALIPHATIC ESTER	0.09
105	37.98	CAMPHENE HYDRATE	0.11
106	38.14	beta-CARYOPHYLLENE	0.03
107	38.35	ALIPHATIC ESTER	0.01
108	38.57	TERPINENE-4-OL	0.04
109	39.05	ALIPHATIC ESTER	0.03
110	39.45	TERPENIC COMPOUND	0.04
111	39.72	MYRTENAL	0.71
112	40.11	ALIPHATIC ESTER	0.03
113	40.56	TERPENIC COMPOUND	0.04
114	40.71	TERPENIC COMPOUND	0.05
115	41.39	trans-PINOCARVEOL	4.75
116	42.15	ALCOHOL COMPOUND	0.03
117	42.48	ALCOHOL COMPOUND	0.05
118	42.65	ALIPHATIC ESTER	0.04
119	43.03	trans-VERBENOL	0.16
120			
121	43.30	TERPENIC COMPOUND	0.01
122	43.42	TERPENIC COMPOUND	0.02
123	43.53	TERPENIC COMPOUND	0.03
124	44.16	TERPENIC COMPOUND	0.02
125	44.27	BORNEOL	0.11
126	44.44	ALIPHATIC ESTER	0.04
127	44.65	TERPENIC COMPOUND	0.03

128	45.13	GERMACRENE D	0.07
129	45.51	TERPENIC COMPOUND	0.02
130	45.61	SESQUITERPENE	0.07
131	46.37	TERPENIC COMPOUND	0.09
132	46.51	TERPENIC COMPOUND	0.06
133	47.08	SESQUITERPENE	0.02
134	47.28	SESQUITERPENE Mw=202	0.01
135	47.43	ALIPHATIC ESTER	0.03
136	47.82	E,E-alpha-FARNESENE	0.04
137	47.96	GERANYL ACETATE	0.04
138	48.17	TERPENIC COMPOUND	0.01
139	48.35	ALIPHATIC ESTER	0.01
140	48.64	TERPENIC COMPOUND	0.01
141	48.87	alpha-CURCUMENE	0.07
142	49.17	TIGLIC ACID	0.07
143	49.32	ISOBUTYL 3-HYDROXY-2-METHYLENEBUTYRATE	0.53
144	49.58	MYRTENOL	0.37
145	49.84	TERPENIC COMPOUND	0.03
146	50.78	ALIPHATIC ESTER	0.01
147	51.34	ALIPHATIC ESTER	0.02
148	51.54	2,4-DECADIENAL	0.03
149	52.37	ALIPHATIC ESTER	0.03
150	52.81	p-CYMENE-8-OL	0.04
151	53.06	TERPENIC COMPOUND	0.02
152	53.81	TERPENIC COMPOUND	0.01
153	53.97	TERPENIC COMPOUND	0.01
154	54.31	2-HYDROXY-2-METHYLBUT-3-ENYL ANGELATE	0.65
155	54.56	TERPENIC COMPOUND	0.07
156	55.07	ALIPHATIC ESTER	0.03
157	55.43	ISOPENTYL 3-HYDROXY-2-METHYLENEBUTYRATE	0.37
158	56.22	AROMATIC COMPOUND	0.03
159	57.08	AROMATIC COMPOUND	0.04
160	59.77	ALIPHATIC ESTER	0.03
161	60.87	TERPENIC COMPOUND	0.03
162	61.41	TERPENIC COMPOUND	0.01
163	62.03	COMPOUND Mw=222	0.09
164	63.46	TERPENIC COMPOUND	0.02
165	65.30	COMPOUND Mw=166	0.14
166	66.93	COMPOUND Mw=222	0.05
167	68.54	PENTADECANONE, TRIMETHYL-	0.08
168	70.14	5-epi-7-epi-alpha-EUDESMOL	0.10
169	72.81	LACHNOPHYLLUM METHYL ESTER	0.02
170	75.80	MATRICARIA ESTER	0.14
		TOTAL	**99.78**

Note: Peaks 24 (ISOBUTYRIC ANHYDRID), 43 (ISOAMYL METHACRYLATE) and 81 (ARTEMISIA CETONE ISOMER) are listed in the source report without a retention time or percentage, and peak 120 is listed in the source report as a number only, with no compound name, retention time or percentage; they are carried here exactly as printed. The source report states TOTAL 99.78.

Faithful copy of the GC/MS analysis report. The original document is kept in the MALIKA Essentials archives.