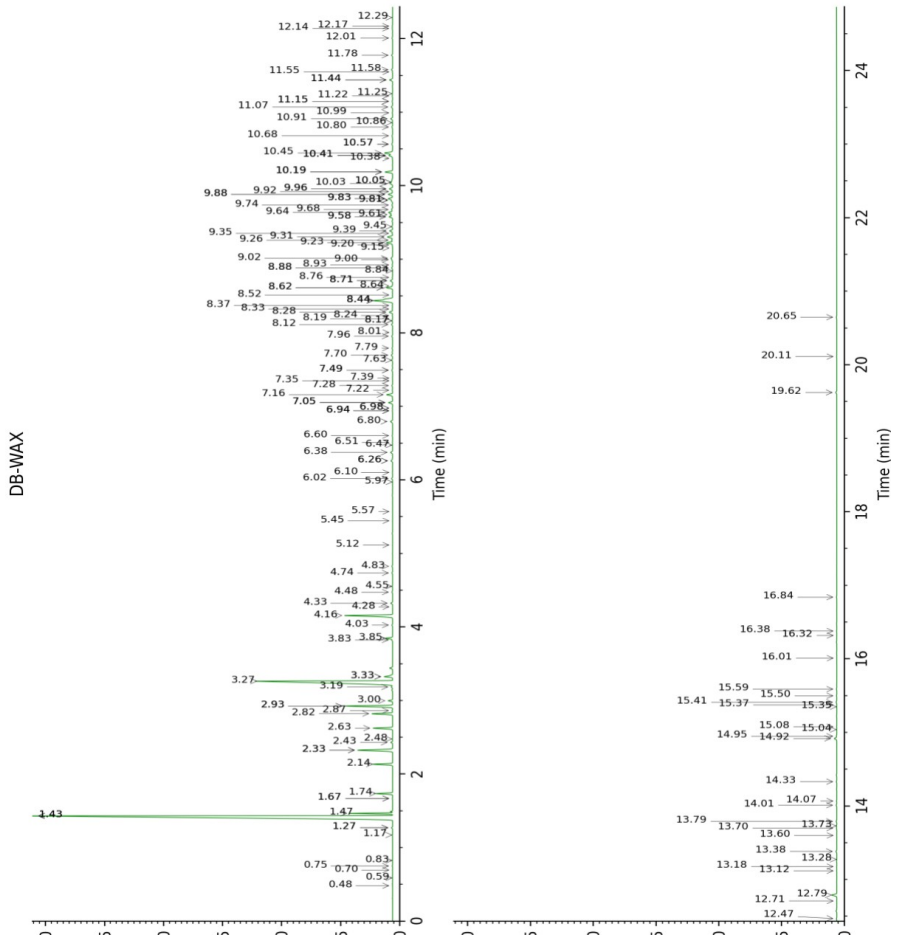
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Frankincense Carterii Essential Oil
Botanical Name	Boswellia carterii
Analysis Date	January 6, 2026

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	Compound name	%
1	3-Methylfuran	0.01
2	(E)-2-Methyl-1,3-pentadiene	0.01
3	3-Methyl-2-butanone	tr
4	Unknown	0.01
5	Toluene	0.11
6	Unknown	0.02
7	Unknown	tr
8	Unknown	0.02
9	Unknown	tr
10	Hashishene	0.11
11	Tricyclene	0.07
12	α-Thujene	2.10
13	α-Pinene	44.63
14	Unknown	0.13
15	α-Fenchene	tr
16	Camphene	1.06
17	Thuja-2,4(10)-diene	0.81
18	3,7,7-Trimethylcyclohepta-1,3,5-triene	0.21
19	Sabinene	2.23
20	β-Pinene	1.34
21	Pseudolimonene isomer	0.01
22	6-Methyl-5-hepten-2-one	0.01
23	Dehydro-1,8-cineole	0.11
24	Myrcene	3.31
25	6-Methyl-5-hepten-2-ol	0.01
26	α-Phellandrene	1.50
27	Octanal	0.06
28	Pseudolimonene	0.04
29	ortho-Methylanisole	0.01
30	Δ3-Carene	1.38
31	α-Terpinene	0.31
32	para-Cymene	4.11
33	Limonene	17.61
34	β-Phellandrene	[0.76]
35	1,8-Cineole	[0.76]
36	ortho-Cymene	0.02
37	(Z)-β-Ocimene	0.06
38	Unknown	0.02
39	(E)-β-Ocimene	0.05
40	Unknown	tr
41	γ-Terpinene	0.49
42	cis-Sabinene hydrate	0.01
43	Unknown	0.05
44	cis-Linalool oxide (fur.)	0.02
45	Octanol	0.01
46	Unknown	0.02
47	meta-Cymenene	0.02
48	Isoterpinolene	0.01
49	para-Cymenene	0.18
50	Terpinolene	0.14
51	α-Pinene oxide	0.01
52	6,7-Epoxymyrcene	0.02
53	trans-Sabinene hydrate	0.01
54	α-Thujone	0.09

55	Linalool	0.09
56	Unknown	0.02
57	Verbenol analog?	0.04
58	Amyl isovalerate	0.10
59	β-Thujone	0.08
60	cis-para-Menth-2-en-1-ol	0.03
61	trans-para-Mentha-2,8-dien-1-ol	0.05
62	α-Campholenal	0.32
63	Myrcenol	0.01
64	Unknown	0.01
65	Unknown	0.01
66	allo-Ocimene	0.01
67	cis-Limonene oxide	0.02
68	trans-Pinocarveol	0.54
69	trans-Limonene oxide	0.04
70	trans-Sabinol	0.13
71	trans-Verbenol	0.27
72	meta-Mentha-4,6-dien-8-ol	0.25
73	Unknown	0.01
74	Sabinaketone	0.03
75	Pinocamphone	0.07
76	Pinocarvone	0.07
77	Unknown	0.04
78	Borneol	0.04
79	Unknown	0.12
80	α-Phellandren-8-ol	0.63
81	cis-Sabinol	0.02
82	Umbellulone	0.04
83	Terpinen-4-ol	0.56
84	Thuj-3-en-10-al	0.03
85	meta-Cymen-8-ol	0.02
86	Cryptone	0.03
87	para-Cymen-8-ol	0.11
88	trans-Isocarveol	0.04
89	α-Terpineol	0.22
90	Myrtenal	0.19
91	Myrtenol	0.19
92	trans-Isopiperitenol	0.05
93	cis-α-Phellandrene epoxide (iPr vs Me)	0.13
94	Verbenone	0.41
95	trans-Piperitol	0.01
96	trans-Carveol	0.28
97	cis-Carveol	0.09
98	Cuminal	0.07
99	Carvone	0.24
100	Carvotanacetone	0.03
101	Piperitone	0.04
102	3,5-Dimethoxytoluene	0.06
103	Unknown	0.08
104	Bornyl acetate	0.3
105	2-Undecanone	0.03
106	Thymol	0.02
107	trans-Pinocarvyl acetate	0.01
108	Carvacrol	0.01
109	Myrtenyl acetate	0.01
110	Bicycloelemene	0.02
111	α-Terpinyl acetate	0.06
112	α-Cubebene	0.2

113	Cyclosativene I	0.01
114	Cyclosativene II	0.02
115	Neryl acetate	0.02
116	α-Ylangene	0.02
117	α-Copaene	0.54
118	1,5-diepi-β-Bourbonene	0.02
119	β-Bourbonene	0.05
120	Geranyl acetate	0.03
121	β-Cubebene	0.04
122	β-Elemene	0.72
123	Isocaryophyllene	0.03
124	α-Gurjunene	0.06
125	cis-α-Bergamotene	0.03
126	β-Caryophyllene	1.76
127	β-Copaene	0.04
128	trans-α-Bergamotene	0.08
129	6,9-Guaiadiene	0.02
130	Unknown	0.02
131	trans-Muurola-3,5-diene	0.08
132	α-Humulene	0.42
133	allo-Aromadendrene	0.13
134	cis-Muurola-4(15),5-diene	0.03
135	trans-Cadina-1(6),4-diene	0.11
136	γ-Muurolene	0.25
137	Germacrene D	0.12
138	β-Selinene	0.41
139	trans-Muurola-4(15),5-diene	0.02
140	δ-Selinene	0.13
141	Valencene	0.06
142	Bicyclogermacrene	0.04
143	α-Selinene	0.30
144	epi-Cubebol	0.05
145	α-Muurolene	0.13
146	Germacrene A	0.02
147	δ-Amorphene	0.01
148	β-Bisabolene	0.02
149	γ-Cadinene	0.31
150	endo-1-Bourbonanol	0.01
151	trans-Calamenene	0.04
152	δ-Cadinene	0.76
153	trans-Cadina-1,4-diene	0.06
154	α-Cadinene	0.03
155	α-Calacorene	0.03
156	α-Elemol	0.03
157	Isocaryophyllene epoxide B	0.03
158	Germacrene B	0.04
159	Eudesma-5,7(11)-diene	0.02
160	Palustrol	0.01
161	Unknown	0.02
162	Germacrene D-4-ol	0.05
163	10-epi-Liguloxide	0.04
164	Caryophyllene oxide	0.47
165	Caryophyllene oxide isomer	0.01
166	Viridiflorol	0.08
167	Humulene epoxide I	0.01
168	Copaborneol	0.06
169	Humulene epoxide II	0.08
170	4,10-diepi-Guaiol	0.04

171	Junenol	0.01
172	1,10-diepi-Cubenol	0.04
173	1-epi-Cubenol	0.08
174	τ-Muurolol	0.02
175	τ-Cadinol	0.24
176	β-Eudesmol	0.06
177	α-Eudesmol	0.03
178	α-Cadinol	0.02
179	(3Z)-Caryophylla-3,8(13)-dien-5β-ol	0.05
180	Germacra-4(15),5,10(14)-trien-1α-ol	0.01
181	Shyobunol	0.01
182	α-Phellandrene dimer II	0.04
183	α-Phellandrene dimer III	0.01
184	α-Phellandrene dimer IV	0.01
185	(3E)-Cembrene A	0.05
186	Verticilla-4(20),7,11-triene	0.03
187	Cembrenol	0.02
188	Incensole	0.05
189	Serratol	0.11
	Consolidated total	**98.88**

tr = trace amount. Peaks 34 (β-Phellandrene) and 35 (1,8-Cineole) co-elute in the source report; the bracketed figure [0.76] is the combined value for the pair.

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