

Product Code: EO153

GCMS ANALYSIS

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL (BOSWELLIA SERRATA)

Peak	RT (min)	Compound name	%
1	0.63	(E)-2-Methyl-1,3 pentadiene	0.01
2	1.27	Toluene	0.01
3	2.21	Unknown [m/z 109,43 (28), 124 (28), 41(14), 55 (11), 79 (9),81 (8)...]	tr
4	2.88	Unknown [m/z 93, 91(72), 121 (58), 77 (49), 79 (41), 43 (22), 105(20),107 (20), 41 (18),136 (17), 92 (17)]	0.02
5	3.04	Hashishene	0.10
6	3.08	Tricyclene	0.01
7	3.26	α -Thujene	69.25
8	3.30	α -Pinene	5.61
9	3.44	Unknown [m/z 91, 92(47), 65 (11)... 134 (1)]	0.36
10	3.47*	Camphene	0.08
11	3.47*	α -Fenchene	[0.08]
12	3.56	Thuja-2,4(10)-diene	0.01
13	3.81	3,7,7-Trimethylcyclohepta-1,3,5-triene	0.02
14	3.89†	Sabinene	5.76
15	3.89†	β -Pinene	[5.76]
16	4.04	Pseudolimoneneisomer	0.01
17	4.21	Myrcene	1.08
18	4.26	2-Carene	0.01
19	4.36	α -Phellandrene	1.83
20	4.45	Δ^3 -Carene	3.03
21	4.55	α -Terpinene	0.34
22	4.64	meta-Cymene	0.08
23	4.68	para-Cymene	1.80
24	4.71	Unknown [m/z 109,43 (58), 95 (26)... 137(15)...]	0.17
25	4.75*	β -Phellandrene	2.13
26	4.75*	1,8-Cineole	[2.13]
27	4.75*	Limonene	[2.13]
28	4.88	Unknown [m/z 67, 93(70), 82 (70), 121 (42), 107 (39), 91 (33), 79(28)...]	0.01
29	4.96	(Z)- β -Ocimene	0.44
30	5.07	Unknown [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22),77 (21), 137 (21), 41(17), 79 (14)]	0.06

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31	5.12	(E)- β -Ocimene	0.22
32	5.17	Unknown [m/z 109, 45 (67), 41 (40), 67(39), 81 (33), 79 (27),95 (24), 91 (23), 82(21), 55 (21), 93(20)...]	0.03
33	5.24	γ -Terpinene	0.74
34	5.36	cis-Sabinene hydrate	0.04
35	5.41	Unknown [m/z 79, 93(60), 43 (40), 94 (35), 137 (33), 77 (26), 91(20), 152 (18)]	0.01
36	5.67	Isoterpinolene	0.01
37	5.70*	para-Cymenene	0.27
38	5.70*	Terpinolene	[0.27]
39	5.85	trans-Sabinenehydrate	0.04
40	5.89	Perillene	0.01
41	5.94	Linalool	0.13
42	6.00	Unknown [m/z 119,109 (94), 43 (61), 95 (56), 91 (48), 77 (32),152 (32), 137 (31),134 (24)]	0.01
43	6.11*	Unknown [m/z 109,81 (54), 91 (32), 79(22)...]	0.20
44	6.11*	β -Thujone	[0.20]
45	6.22*	α -Campholenal	0.06
46	6.22*	cis-para-Menth-2-en-1-ol	[0.06]
47	6.29	Unknown [m/z 111,43 (22), 55 (14), 41(12), 110 (11)...]	0.01
48	6.39	allo-Ocimene	0.02
49	6.45	trans-Pinocarveol	0.02
50	6.52	trans-Sabinol	0.06
51	6.58	trans-Verbenol	0.02
52	6.64	para-Menth-3-en-8-ol	0.01
53	6.83	Unknown [m/z 109,43 (75), 137 (46), 67(31), 93 (25)...152 (4)]	0.02
54	6.90	Borneol	0.03
55	6.94	α -Phellandren-8-ol	Tr
56	6.98*	cis-Sabinol	0.07
57	6.98*	Unknown [m/z 95,110 (43), 81 (28), 41(15)... 152 (8)]	[0.07]
58	7.08	Terpinen-4-ol	0.67
59	7.19	meta-Cymen-8-ol	0.01
60	7.23	para-Cymen-8-ol	0.02

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61	7.30	α -Terpineol	0.05
62	7.42	Methylchavicol	1.99
63	7.46	<i>cis</i> - α -Phellandreneepoxide (iPr vs Me)	0.04
64	7.52	Verbenone	0.03
65	7.57	<i>trans</i> -Piperitol	0.02
66	7.75	<i>trans</i> -Carveol	0.02
67	8.12	Carvone	0.02
68	8.22	Piperitone	0.04
69	8.27	<i>trans</i> -Sabinenehydrate acetate	0.01
70	8.36	Linalyl acetate	0.04
71	8.52	Unknown [m/z 109,41 (22), 81 (14), 43(11)... 152 (4)]	0.02
72	8.73	Bornyl acetate	0.04
73	8.98	Thymol	0.01
74	9.10	Carvacrol	0.01
75	9.19	para-Menth-5-en-1,2-diol isomer III	0.06
76	9.46	Unknown [m/z 43, 97(99), 107 (47), 41 (35),55 (30)...]	0.01
77	9.67*	α -Terpinyl acetate	0.05
78	9.67*	α -Cubebene	[0.05]
79	9.96	α -Ylangene	0.02
80	10.03	α -Copaene	0.13
81	10.14*†	1,5-diepi- β -Bourbonene	0.57
82	10.14*†	β -Bourbonene	[0.57]
83	10.24*	β -Cubebene	0.02
84	10.24*	Unknown [m/z 71,109 (99), 85 (66), 111(65), 100 (63), 43(59)...]	[0.02]
85	10.28	β -Elemene	0.01
86	10.32	Sibirene	0.06
87	10.46*	α -Gurjunene	0.12
88	10.46*	Methyleugenol	[0.12]
89	10.61	β -Ylangene	0.09
90	10.74	β -Copaene	0.07

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Peak	RT (min)	Compound name	%
91	10.88	<i>trans</i> - α -Bergamotene	0.05
92	10.95	Isogermacrene D	0.05
93	11.06	α -Humulene	0.01
94	11.11	allo-Aromadendrene	0.02
95	11.16	<i>cis</i> -Muuro-la-4(15),5-diene	0.02
96	11.40	γ -Muuro-lene	0.05
97	11.44	Germacrene D	0.20
98	11.46	Unknown [m/z 91, 93(92), 105 (71), 77 (69), 79 (68), 133 (63)...204 (32)]	0.12
99	11.52	β -Selinene	0.01
100	11.63	Bicyclogermacrene	0.02
101	11.72	α -Muuro-lene	0.01
102	11.80	δ -Amorphene	0.01
103	11.89*	γ -Cadinene	0.02
104	11.89*	β -Bisabolene	[0.02]
105	12.03	δ -Cadinene	0.16
106	12.35	α -Elemol	0.01
107	12.48	Elemicin	0.02
108	12.96	Guaiol	0.01
109	13.14	4,10-diepi-Guaiol	0.01
110	13.61	Unknown [m/z 204, 161 (97), 59 (87), 189(78), 105 (45)...]	0.01
111	15.29	α -Phellandrenedimer II	0.04
112	15.47	α -Phellandrenedimer III	0.01
113	15.69	α -Phellandrenedimer IV	0.01
114	17.05	(3E)-Cembrene A	0.03
115	17.58	Verticilla-4(20),7,11-triene	0.02
116	18.84	Cembrenol	0.02
117	18.98	Serratol	0.08
Total reported			99.52%

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