



Jade Bloom

Certified GC-MS Report Prepared By Dr. Hussam Bdour

GC-MS Profiling Analysis Prepared for Jade Bloom, Inc

Date: 2-19-2019

Sample: Frankincense Serrata

Type: Essential Oil

Source: *Boswellia Serrata*

Batch: 180869718

Peak	Compound	RT	Area Sum %
1	Bornylene	8.503	0.03
2	(3Z)-Hexenol	9.072	0.17
3	Tricyclene	9.217	0.01
4	α -Thujene	9.595	66.68
5	α -Pinene	9.85	6.69
6	unknown	10.492	0.51
7	Camphene	10.597	0.07
8	Thuja-2,4(10)-diene	10.962	0.02
9	m-Cymene	11.917	0.07
10	Sabinene	12.141	5.78
11	β -Pinene	12.229	0.2
12	β -Myrcene	13.446	0.81
13	unknown	13.853	0.02
14	α -Phellandrene	14.079	0.99
15	δ 3-carene	14.443	3.09
16	α -Terpinene	14.928	0.46
17	Carvomenthene	15.212	0.03
18	o-Cymene	15.353	0.11
19	p-Cymene	15.487	2.13
20	Limonene	15.745	2.41
21	(Z)- β -Ocimene	16.732	0.37
22	unknown	17.208	0.13
23	(E)- β -Ocimene	17.446	0.21
24	γ -Terpinene	18.006	0.98
25	cis-Sabinene hydrate	18.565	0.16
26	cis-p-Mentha-2,8-dien-1-ol	18.929	0.06
27	α -Terpinolene	20.208	0.34
28	trans-Sabinene hydrate	20.915	0.16
29	Linalool	21.39	0.17
30	unknown	22.204	0.07
31	β -Thujone	22.347	0.12
32	trans-p-2,8-Menthadien-1-ol	22.776	0.15
33	α -Campholenal	23.143	0.05
34	Allo-Ocimene	23.687	0.02
35	Pinocarveol<trans->	23.921	0.03
36	trans-para-Mentha-2-en-1-ol	24.271	0.1
37	trans-Verbenol	24.611	0.05
38	α -Phellandrene-8-ol analog	24.92	0.02
39	cis-Verbenol	25.935	0.07
40	Borneol	26.209	0.02
41	α -Phellandrene-8-ol	26.48	0.06
42	cis-Sabinol	26.664	0.13
43	Umbellulone	26.992	0.02
44	Terpinen-4-ol	27.214	0.98
45	unknown	27.88	0.05

46	p-Cymen-8-ol	28.078	0.05
47	α -Terpineol	28.425	0.11
48	unknown	28.861	0.06
49	Methyl chavicol	29.165	2.09
50	Verbenone	29.729	0.07
51	unknown	33.412	0.05
52	unknown	34.367	0.05
53	Bornyl acetate	36.373	0.06
54	α -Cubebene	41.48	0.04
55	α -Terpinyl acetate	41.674	0.08
56	α -Copaene	43.377	0.16
57	β -Bourbonene	44.012	0.73
58	unknown	44.988	0.2
59	Methyleugenol	46.449	0.11
60	β -Caryophyllene & β -Ylangene	46.729	0.13
61	β -Copaene	47.498	0.12
62	trans- α -Bergamotene	48.414	0.07
63	Isogermacrene D	48.689	0.08
64	Alloaromadendrene	49.835	0.03
65	unknown	50.296	0.05
66	γ -Muurolene	51.418	0.05
67	Germacrene D	51.518	0.18
68	unknown	51.662	0.14
69	α -Muurolene	53.13	0.03
70	γ -Cadinene	54.122	0.05
71	δ -Cadinene	54.898	0.14
72	Elemicin	58.215	0.05
73	α -Phellandrene dimer I	65.935	0.07
74	α -Phellandrene dimer II	66.157	0.01
75	Cembrene A	67.805	0.03
76	Verticilla-4(20),7,11-triene	68.332	0.02
77	Cembrenol	69.41	0.08
78	Total identified		99.57%



