



# Jade Bloom

Health, Healing, & Happiness®

**Date:** July 1, 2022

## **CERTIFICATE OF ANALYSIS - GC PROFILING**

**Sample identification:** Frankincense Sacra - JB1843-358932

**Type:** Essential oil

**Source:** Boswellia sacra

## **ANALYSIS**

**Method:** 10152018\_10:1split.m - Analysis of the composition of an essential oil, or other volatile liquid, by GC-FID, identifications validated by GC-MS.

**Analysis date:** December 13, 2019

**Physical aspect:** Pale Yellow Liquid

## **CONCLUSION**

No adulterant or contaminant has been detected in this oil.

Peak	Compound	RT	Area Sum %
1	(3Z)-Hexenol	9.067	0.42
2	Tricyclene	9.2	0.08
3	$\alpha$ -Thujene	9.559	0.78
4	$\alpha$ -Pinene	9.874	73.23
5	Camphene	10.587	2
6	Thuja-2,4(10)-diene	10.944	0.96
7	unknown	11.43	0
8	m-Cymene	11.913	0.06
9	Sabinene	12.132	3.04
10	$\beta$ -Pinene	12.215	1.33
11	Camphene analog II	12.766	0.03
12	6-Methyl-5-heptene-2-one	13.244	0.21
13	$\beta$ -Myrcene	13.436	1.44
14	3-Octanol	13.634	0.02
15	$\alpha$ -Phellandrene	14.076	0.46
16	$\delta$ 3-carene	14.436	0.38
17	o-Methylanisole	14.542	0.11
18	unknown	14.683	0.04
19	$\alpha$ -Terpinene	14.916	0.18
20	Carvomenthene	15.189	0.03
21	p-Cymene	15.478	1.09
22	Limonene	15.737	4.72
23	1,8-Cineole	15.854	0.22
24	Benzyl alcohol	16.442	0.04
25	(Z)- $\beta$ -Ocimene	16.722	0.11
26	unknown	17.272	0.02
27	(E)- $\beta$ -Ocimene	17.44	0.06
28	$\gamma$ -Terpinene	17.996	0.37
29	cis-Sabinene hydrate	18.572	0.02
30	cis-p-Mentha-2,8-dien-1-ol	18.898	0.04
31	unknown	19.046	0.02
32	unknown	19.627	0.09
33	$\alpha$ -Terpinolene	20.282	0.23
34	$\alpha$ -Pinene oxide	20.459	0.03
35	trans-Sabinene hydrate	20.924	0.03
36	Linalool	21.397	0.13
37	$\alpha$ -Thujone	22.032	0.03
38	$\beta$ -Thujone	22.448	0.03
39	cis-para-Menth-2-en-1-ol	22.7	0.04
40	$\alpha$ -Campholenal	23.125	0.21
41	Pinocarveol<trans->	23.91	0.71
42	unknown	24.103	0.08
43	trans-para-Mentha-2-en-1-ol	24.296	0.23
44	trans-Verbenol	24.566	0.74
45	$\alpha$ -Phellandrene-8-ol analog	24.882	0.44

46	$\alpha$ -Phellandrene-8-ol analog	25.572	0.05
47	$\alpha$ -Phellandrene-8-ol	26.474	0.94
48	Terpinen-4-ol	27.203	0.46
49	p-Cymen-8-ol	28.048	0.18
50	$\alpha$ -Terpineol	28.401	0.14
51	unknown	28.827	0.34
52	Verbenone	29.747	0.34
53	Octyl acetate	30.821	0.19
54	Carvone	32.836	0.03
55	unknown	34.837	0.07
56	Bornyl acetate	36.352	0.39
57	$\alpha$ -Cubebene	41.668	0.2
58	$\alpha$ -Copaene	43.364	0.09
59	$\beta$ -Bourbonene	43.999	0.18
60	$\beta$ -Elemene	44.868	0.26
61	$\beta$ -Caryophyllene	46.639	0.22
62	trans- $\alpha$ -Bergamotene	48.397	0.02
63	$\alpha$ -Humulene	49.279	0.11
64	Alloaromadendrene	49.867	0.05
65	trans-Cadina-1(6),4-diene	51.187	0.04
66	$\gamma$ -Muurolene	51.372	0.05
67	Germacrene D	51.632	0.01
68	$\beta$ -Selinene	51.817	0.17
69	$\alpha$ -Selinene	52.552	0.16
70	$\alpha$ -Muurolene	53.263	0.08
71	$\gamma$ -Cadinene	54.154	0.12
72	$\delta$ -Cadinene	55.023	0.14
73	Dihydroagarofuran	56.905	0.02
74	Caryophyllene oxide	58.948	0.07
75	Junenol	61.386	0.02
76	$\tau$ -Cadinol	62.75	0.03
77	$\beta$ -Eudesmol	62.948	0.03
78	unknown	65.937	0.02
79	unknown	70.249	0.06
80	unknown	70.479	0.04
81	unknown	71.008	0.05
82	unknown	71.202	0.06
83	unknown	73.514	0.02
84	unknown	73.695	0.06
85	<b>Total identified</b>		<b>99.69%</b>

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