



Jade Bloom

Health, Healing, & Happiness®

Date: May 23, 2022

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Galbanum JB2012-378273

Type: Essential oil

Source: Ferula galbaniflua

Country of origin: Middle East

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: June, 2020

Physical aspect: Light yellow liquid

CONCLUSION

No adulterant or contaminant has been detected in the oil.

Peak	Compound	RT	Area Sum %
1	α -Thujene	9.063	0.88
2	α -Pinene	9.413	19.75
3	Camphene	10.057	0.21
4	unknown	11.38	0.24
5	Sabinene + β -Pinene	11.855	49.51
6	β -Myrcene	12.859	1.91
7	α -Phellandrene	13.476	0.13
8	Δ^3 -Carene	13.867	6.02
9	p-Cymene	14.852	0.33
10	Limonene	15.097	1.11
11	(Z)- β -Ocimene	16.087	0.18
12	(E)- β -Ocimene	16.797	0.13
13	γ -Terpinene	17.342	0.19
14	α -Terpinolene	19.525	0.39
15	Verbenol analog	20.748	0.1
16	trans-Pinocarveol	23.235	0.8
17	unknown	23.921	0.2
18	Pinocarvone	25.217	0.52
19	unknown	26.535	0.16
20	(3E,5E)-Undeca-1,3,5-triene	26.745	0.45
21	unknown	27.219	0.12
22	(3E,5Z)-Undeca-1,3,5-triene	27.413	0.42
23	(3Z)-3-Undecen-5-yne	27.68	0.06
24	Myrtenal	27.987	0.5
25	Myrtenol	28.168	0.56
26	endo-Fenchyl acetate	30.237	1.02
27	(3E)-3-Undecen-5-yne	31.46	0.09
28	Cuminal	31.692	0.04
29	Thymol methyl ether	32.427	0.12
30	Bornyl acetate	35.687	0.14
31	α -Cubebene	40.762	0.08
32	α -Terpinyl acetate	41.024	0.43
33	Cyclosativene I	41.83	0.16
34	α -Ylangene	42.335	0.11
35	α -Copaene	42.685	0.16
36	β -Bourbonene	43.315	0.09
37	β -Cubebene	43.971	0.07
38	β -Elemene	44.185	0.1
39	β -Funebrene	45.332	0.36
40	unknown	45.592	0.07
41	β -Cedrene	45.859	0.06
42	β -Caryophyllene	45.931	0.17
43	cis-Thujopsene	46.733	0.2
44	β -Barbatene + γ -Elemene	47.377	1.1
45	α -Guaiene	48.102	0.12

46	α -Humulene	48.591	0.13
47	Alloaromadendrene	49.039	0.1
48	β -Acoradiene	49.412	0.12
49	(E)- β -Farnesene	49.842	0.24
50	β -Chamigrene	50.269	0.14
51	Germacrene D	50.822	0.44
52	β -Selinene	51.142	0.23
53	unknown	51.517	0.11
54	β -Dihydroagarofuran	51.998	0.52
55	unknown	52.124	0.22
56	α -Cuprenene	52.66	0.31
57	cis- α -Bisabolene	53.17	0.13
58	β -Bisabolene	53.52	1.02
59	unknown	53.781	0.09
60	δ -Cadinene	54.391	0.27
61	unknown	54.734	0.11
62	(E)- α -Bisabolene	56.159	0.28
63	Germacrene B	56.388	0.42
64	(E)-Nerolidol	57.842	0.33
65	Spathulenol	58.009	0.22
66	Guaiol	59.825	1.23
67	unknown	60.221	0.1
68	10-epi- γ -Eudesmol	60.947	0.32
69	unknown	62.105	0.09
70	unknown	62.433	0.12
71	β -Eudesmo	62.635	0.57
72	α -Eudesmol	62.765	0.35
73	Bulnesol	63.327	0.54
74	unknown	63.619	0.07
75	α -Bisabolol	63.944	1.56
76	unknown	66.525	0.07
	Total identified		98.23%

DISCLAIMER:

The information contained in this Certificate of Analysis and/or GC/MS is obtained from current and reliable sources. Jade Bloom provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Jade Bloom, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Jade Bloom expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Jade Bloom as to the fitness for any use. The liability Jade Bloom is limited to the value of the goods and does not include any consequential loss. Jade Bloom shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Jade Bloom shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. This document is computer automated and is valid without signature