



Jade Bloom

Health, Healing, & Happiness®

Certificate of Analysis

Product	Tea Tree Essential Oil
HBNO Lot	JB2218-889122
Appearance	Fluid Liquid
Color	Clear
Odor	Conforms to Standard
Manufacturing date	August 2022
Retest date	November 2024

Physico-Chemical Properties:

Properties	Results
Refractive Index at 20°C	1.4771
Specific gravity at 20°C	0.8974
Optical Rotation at 20°C	9.560



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Certificate of Analysis - GC Profiling

Date: 11.16.2022

Sample Identification: Tea Tree - JB2218-889122

Type: Essential oil

Source: Melaleuca alternifolia ct. Terpinen-4-ol

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: 11.15.2022

Physical aspect: Clear liquid

CONCLUSION

No adulterant or contaminant has been detected in this oil.

Peak	Compound	RT	Area Sum %
1	cis-3-Hexenol	5.783	0.05
2	α -Thujene	8.538	0.88
3	α -Pinene	8.801	2.25
4	α -Fenchene + Camphene	9.487	0.02
5	Sabinene	10.926	0.55
6	β -Pinene	10.997	0.81
7	β -Myrcene	12.151	0.91
8	α -Phellandrene	12.754	0.36
9	α -Terpinene	13.622	10.46
10	p-Cymene	14.107	0.83
11	β -Phellandrene + Sabinene + Limonene	14.36	1.14
12	1,8-Cineole	14.46	4.44
13	(Z)- β -Ocimene	15.305	0.01
14	(E)- β -Ocimene	16.007	0.02
15	γ -Terpinene	16.679	20.48
16	cis-Sabinene hydrate	17.08	0.18
17	α -Terpinolene	18.701	3.55
18	trans-Sabinene hydrate	19.355	0.48
19	Linalool	19.862	0.05
20	cis-para-Menth-2-en-1-ol	21.152	0.68
21	trans-p-2-Menthen-1-ol	22.649	0.47
22	Terpinen-4-ol	26.03	41.51
23	α -Terpineol	26.898	2.88
24	cis-Piperitol	27.192	0.12
25	trans-Piperitol	28.272	0.21
26	Piperitone	31.93	0.01
27	trans-Ascaridol glycol	33.242	0.02
28	cis-Ascaridol glycol	34.762	0.01
29	unknown	37.527	0.01
30	δ -Elemene	38.733	0.2
31	α -Cubebene	39.786	0.05
32	Isoledene	41.485	0.03
33	α -Copaene	41.688	0.06
34	7-Cubebene	41.984	0.03
35	unknown	42.157	0.02
36	unknown	43.195	0.06
37	α -Gurjunene	44.273	0.22
38	β -Maaliene	44.708	0.01
39	β -Caryophyllene	44.925	0.24
40	γ -Maaliene	45.668	0.04
41	β -Gurjunene	45.818	0.01
42	α -Maaliene	46.03	0.03
43	Aromandendrene	46.442	0.53
44	Selina-5,11-diene	46.851	0.07
45	trans-Muurola-3,5-diene	47.471	0.13

46	α -Humulene	47.527	0.06
47	Alloaromadendrene	48.127	0.32
48	Valerena-4,7(11)-diene	48.575	0.02
49	γ -Gurjunene	49.163	0.03
50	trans- Cadina-1(6),4-diene	49.408	0.22
51	γ -Muurolene	49.705	0.03
52	β -Selinene	50.099	0.04
53	All-Aromadendr-9-ene	50.259	0.05
54	trans-Muurola-4(14),5-diene	50.532	0.11
55	Cadina-3,5-diene	50.863	0.1
56	Viridiflorene	51.015	1.68
57	α -Muurolene	51.58	0.1
58	unknown	52.054	0.01
59	γ -Cadinene	52.52	0.04
60	δ -Cadinene	53.366	0.98
61	trans-Cadina-1,4-diene	53.84	0.11
62	unknown	55.598	0.06
63	unknown	56.067	0.07
64	Spathulenol	56.951	0.04
65	Globulol	57.36	0.22
66	Viridiflorol	57.888	0.12
67	Cubeban-11-ol	58.152	0.07
68	Eudesm-5-en-11-ol analog	58.737	0.07
69	Rosifoliol	60.283	0.08
70	1-epi-Cubenol	60.764	0.13
71	unknown	61.491	0.02
72	Cubenol	61.7	0.08
73	α -Muurolol	62.024	0.03
	Total identified		99.75%

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