

Date: September 19th, 2020

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Tea Tree – 200960609

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: September 18th, 2020

Physical aspect: Clear liquid

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method. The oil complies with ISO specifications.

Analyzed and approved by:

Dr. Hussam Bdour
Chief Quality Control Chemist
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Peak	Compound	RT	Area Sum %
1	α -Thujene	8.998	0.99
2	α -Pinene	9.276	2.49
3	Sabinene	11.5	0.8
4	β -Pinene	11.567	0.79
5	β -Myrcene	12.776	0.96
6	α -Phellandrene	13.388	0.57
7	α -Terpinene	14.31	10.55
8	p-Cymene	14.793	1.75
9	β -Phellandrene + Limonene	15.034	1.98
10	1,8-Cineole	15.174	3.24
11	γ -Terpinene	17.454	21.17
12	cis-Sabinene hydrate	17.854	0.08
13	α -Terpinolene	19.481	3.87
14	trans-Sabinene hydrate	20.164	0.17
15	Linalool	20.65	0.06
16	cis-para-Menth-2-en-1-ol	21.961	0.35
17	trans-p-2-Menthen-1-ol	23.51	0.26
18	unknown	25.627	0.02
19	Terpinen-4-ol	26.933	38.38
20	α -Terpineol	27.776	2.82
21	cis-Piperitol	28.056	0.07
22	trans-Piperitol	29.122	0.12
23	Piperitone	32.775	0.06
24	δ -Elemene	39.575	0.18
25	α -Cubebene	40.618	0.06
26	Isoledene	42.326	0.06
27	α -Copaene	42.532	0.1
28	7-Cubebene	42.832	0.05
29	unknown	43.012	0.01
30	β -Elemene	44.045	0.08
31	α -Gurjunene	45.13	0.34
32	β -Caryophyllene	45.787	0.43
33	γ -Maaliene	46.519	0.05
34	β -Gurjunene	46.687	0.02
35	α -Maaliene	46.89	0.05
36	Aromandendrene	47.307	0.97
37	Selina-5,11-diene	47.71	0.14
38	trans-Muurola-3,5-diene	48.329	0.17
39	α -Humulene	48.405	0.07
40	unknown	48.7	0.03
41	Alloaromadendrene	48.992	0.47
42	Valerena-4,7(11)-diene	49.427	0.04
43	γ -Gurjunene	50.01	0.03
44	trans- Cadina-1(6),4-diene	50.267	0.28

45	γ -Muurolene	50.643	0.05
46	β -Selinene	50.965	0.07
47	All-Aromadendr-9-ene	51.123	0.07
48	trans-Muurola-4(14),5-diene	51.401	0.08
49	Viridiflorene + Bicyclgermacrene	51.881	1.93
50	α -Muurolene	52.433	0.1
51	unknown	52.911	0.03
52	γ -Cadinene	53.322	0.04
53	δ -Cadinene	54.236	1.39
54	trans-Cadina-1,4-diene	54.704	0.19
55	unknown	56.472	0.04
56	unknown	56.948	0.07
57	Spathulenol	57.817	0.05
58	Globulol	58.241	0.2
59	Viridiflorol	58.765	0.1
60	Cubeban-11-ol	59.032	0.06
61	Eudesm-5-en-11-ol analog	59.612	0.05
62	Rosifoliol	61.153	0.08
63	1-epi-Cubenol	61.599	0.13
64	Cubenol	62.312	0.06
65	α -Muurolol	62.548	0.02
	Total identified		99.80%



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