

HEALTH & BEAUTY NATURAL OILS CO., INC.



Date: July 15th, 2020.

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Patchouli - 200113529

Type: Essential oil

Source: Pogostemon cablin

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: July 14th, 2020.

Physical aspect: Yellow liquid

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.

Analyzed and approved by:

Dr. Hussam Bdour
Chief Quality Control Chemist
IL Health & Beauty Natural Oils Co., Inc.



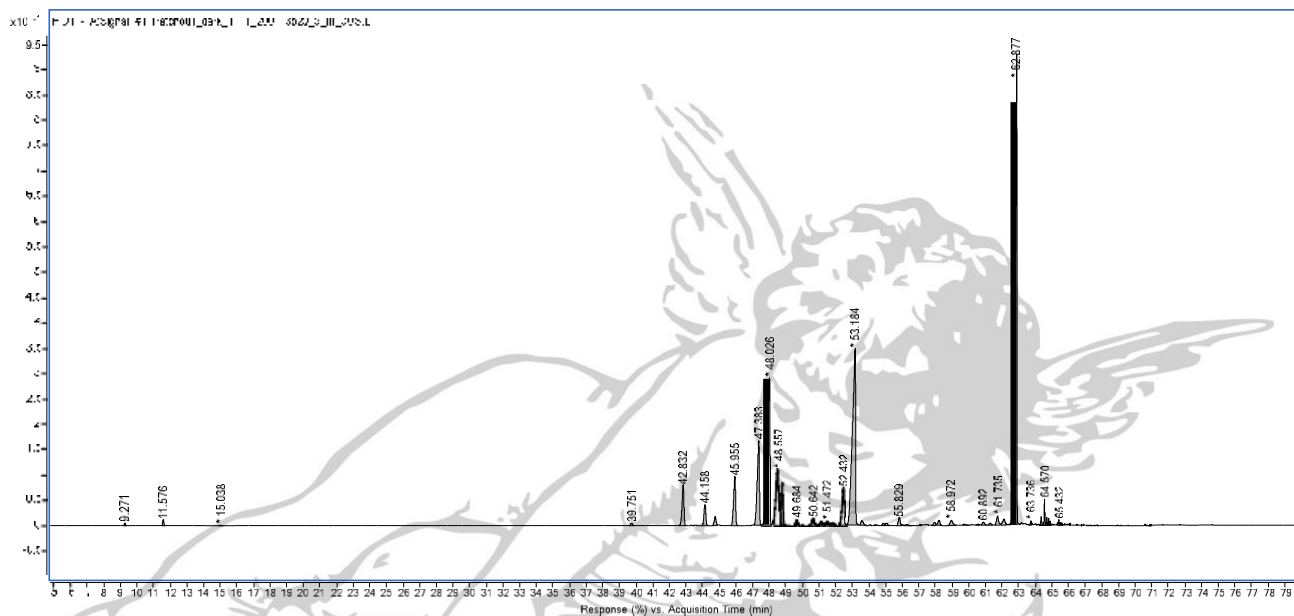
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Peak	Compound	RT	Area Sum %
1	α -Pinene	9.271	0.09
2	β -Pinene	11.576	0.22
3	Limonene	15.038	0.02
4	δ -Elemene	39.751	0.13
5	α -Copaene + β -Patchoulene	42.832	2.68
6	β -Elemene	44.158	1.37
7	Cycloseychellene	44.776	0.56
8	β -Caryophyllene	45.955	3.45
9	Seychellene	47.383	6.45
10	α -Guaiene	48.026	13.98
11	α -Patchoulene	48.557	5.48
12	γ -Patchoulene	48.828	2.89
13	9-epi- β -Caryophyllene	49.684	0.38
14	α -Bulnesene	50.642	0.58
15	β -Selinene	51.135	0.32
16	unknown	51.472	0.35
17	Valencene	51.792	0.24
18	Aciphyllene	52.432	3.23
19	δ -Guaiene	53.184	19.27
20	Selina-3,7(11)-diene	53.59	0.4
21	unknown	54.872	0.13
22	unknown	55.062	0.16
23	Norpatchoulenol	55.829	0.51
24	Germacrene B	56.287	0.05
25	Isoaromadendrene epoxide	57.957	0.24
26	Caryophyllene oxide	58.224	0.38
27	Viridiflorol	58.972	0.48
28	unknown	59.719	0.11
29	unknown	60.575	0.07
30	1-epi-Cubenol	60.892	0.2
31	10-Di-epi-Cubeno	61.283	0.12
32	unknown	61.735	0.65
33	unknown	62.117	0.57
34	Patchouli alcohol + Pogostole	62.877	32.65
35	unknown	63.736	0.14
36	unknown	64.357	0.27
37	Pogostone	64.57	0.56
38	unknown	64.702	0.17
39	unknown	64.817	0.12
40	unknown	64.905	0.07
41	unknown	65.384	0.03

42	unknown	65.432	0.09
43	unknown	65.542	0.04
44	unknown	66.053	0.02
45	unknown	66.117	0.03
46	unknown	66.5	0.03
Total identified			96.95%



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