

Date: August 22, 2019

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: All Spice - 190813214

Type: Essential oil

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: August 22, 2019

Physical aspect: Golden 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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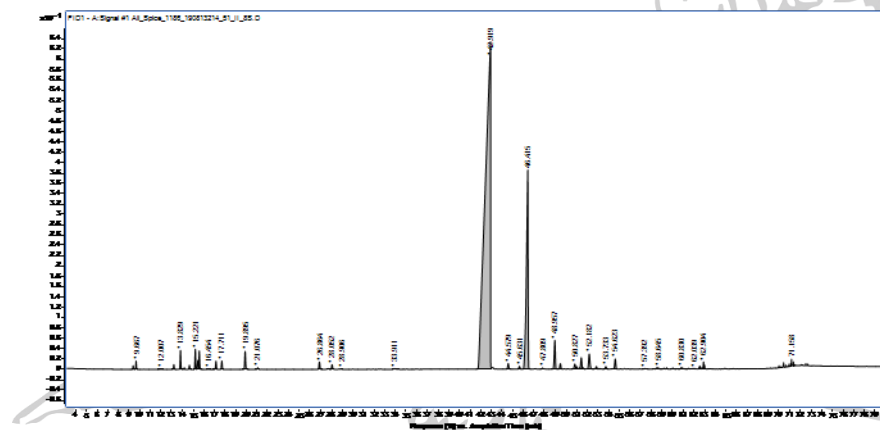
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Peak	Compound	RT	Area Sum %
1	α -Thujene	9.389	0.09
2	α -Pinene	9.667	0.21

3	β -Pinene	12.007	0.03
4	β -Myrcene	13.208	0.15
5	α -Phellandrene	13.829	0.57
6	δ 3-carene	14.194	0.06
7	α -Terpinene	14.668	0.14
8	p-Cymene	15.221	0.64
9	Limonene	15.469	0.32
10	1,8-Cineole	15.593	0.61
11	(Z)- β -Ocimene	16.454	0.02
12	(E)- β -Ocimene	17.16	0.28
13	γ -Terpinene	17.711	0.29
14	α -Terpinolene	19.895	0.71
15	Linalool	21.076	0.07
16	Terpinen-4-ol	26.864	0.32
17	p-Cymen-8-ol	27.706	0.03
18	α -Terpineol	28.052	0.19
19	Estragole	28.906	0.02
20	Chavicol	33.911	0.08
21	Eugenol	42.919	73.88
22	β -Elemene	44.579	0.29
23	α -Gurjunene	45.631	0.16
24	Methyleugenol + β -Caryophyllene	46.415	14.54
25	Aromadendrene	47.809	0.09
26	α -Humulene	48.957	1.46
27	Alloaromadendrene	49.469	0.29
28	Selina-4,11-diene	50.827	0.3
29	γ -Muurolene	50.992	0.13
30	α -Amorphene	51.244	0.06
31	β -Selinene	51.436	0.59
32	unknown	51.586	0.07
33	α -Selinene	52.182	0.96
34	α -Muurolene	52.852	0.17
35	Methyl isoeugenol	53.141	0.04
36	γ -Cadinene	53.733	0.15
37	δ -Cadinene	54.623	0.58
38	Palustrol	57.392	0.05
39	Caryophyllenyl alcohol	57.533	0.04
40	Spathulenol	58.238	0.04
41	Caryophyllene oxide	58.503	0.08
42	Globulol	58.645	0.09
43	Viridiflorol	59.184	0.06
44	Cubeban-11-ol	59.433	0.06
45	cis-Eudesm-6-en-11-ol	60.017	0.09

46	Humulene epoxide II	60.428	0.03
47	unknown	60.83	0.15
48	Rosifoliol	61.52	0.06
49	1-epi-Cubenol	61.9	0.03
50	γ -Eudesmol	62.039	0.03
51	τ -Cadinol	62.548	0.14
52	unknown	62.738	0.04
53	Selin-11-en-4 α -ol	62.904	0.19
54	α -Cadinol	62.991	0.11
55	unknown	71.158	0.08
56	unknown	71.341	0.03
	Total identified		99.63%



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