

HEALTH & BEAUTY NATURAL OILS CO., INC.



Date: May 20, 2020

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Tangerine - 200444171

Type: Essential oil

Source: Citrus reticulata

Country of origin: USA

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: May 19, 2020

Physical aspect: Reddish orange 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.



www.essentialnaturaloils.com

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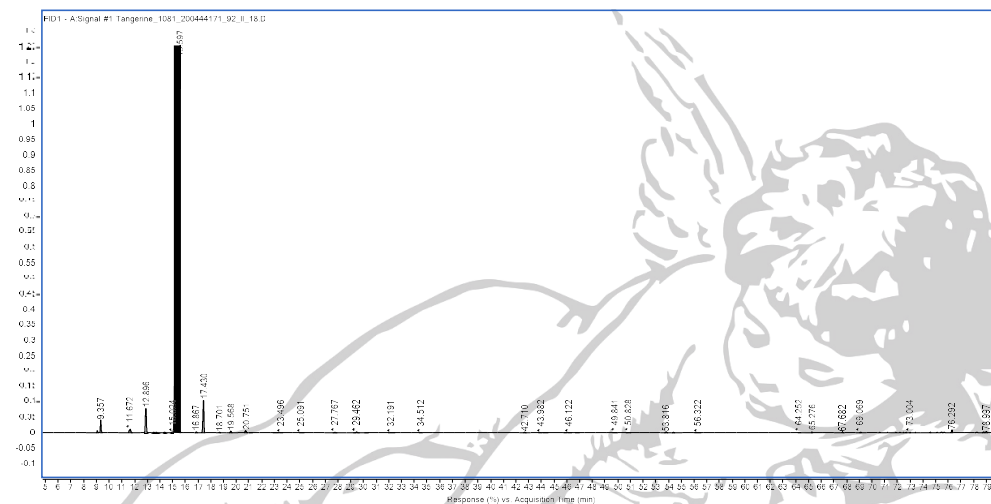
GCMS190403

Peak	Compound	RT	Area Sum %
1	α -Thujene	9.085	0.13
2	α -Pinene	9.357	0.88
3	Sabinene + β -Pinene	11.672	0.49
4	β -Myrcene	12.896	2.13
5	α -Phellandrene	13.52	0.05
6	Octanal	13.705	0.04
7	δ 3-carene	13.867	0.03
8	α -Terpinene	14.372	0.06
9	p-Cymene	15.024	0.08
10	Limonene	15.597	91.65
11	(E)- β -Ocimene	16.867	0.07
12	γ -Terpinene	17.43	2.91
13	Octanol	18.701	0.03
14	α -Terpinolene	19.568	0.14
15	Linalool	20.751	0.21
16	Nonanal	21.175	0.02
17	cis-Limonene oxide	23.116	0.01
18	cis-p-Mentha-2,8-dien-1-ol	23.299	0.01
19	trans-Limonene oxide	23.496	0.01
20	Citronellal	25.091	0.01
21	α -Terpineol	27.767	0.05
22	Decanal	29.462	0.09
23	cis-Carveol	30.235	0.01
24	Carvone	32.191	0.01
25	Perilla aldehyde	34.512	0.03
26	α -Copaene	42.71	0.06
27	β -Cubebene	43.982	0.03
28	β -Elemene	44.197	0.04
29	β -Caryophyllene	45.944	0.02
30	unknown	46.122	0.03
31	β -Copaene	46.818	0.01
32	(E)- β -Farnesene	49.841	0.03
33	Germacrene D	50.828	0.05
34	Valencene	53.816	0.1
35	(3E,6E)- α -Farnesene	54.377	0.04
36	δ -Cadinene	56.322	0.03
37	α -Elemol	64.252	0.01
38	α -Sinensal	65.276	0.04
39	unknown	67.682	0.03
40	unknown	69.069	0.02
41	unknown	69.11	0.02
42	unknown	73.004	0.01

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43	Tangeretin	76.292	0.14
44	unknown	78.783	0.05
45	unknown	78.997	0.08
	Total identified		99.76%



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