

Date: November 10th, 2020

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Cinnamon leaf – HD_CL_608

Type: Essential oil

Source: Cinnamomum verum

Country of Origin: Sri Lanka

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 26th, 2020

Physical aspect: Light yellow liquid

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method. This oil nearly complies to ISO specifications.

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	Styrene	7.384	0.02
2	α -Thujene	9.077	0.12
3	α -Pinene	9.349	0.89
4	Camphene	10.072	0.31
5	Benzaldehyde	10.777	0.19
6	β -Pinene	11.661	0.29
7	β -Myrcene	12.867	0.1
8	α -Phellandrene	13.481	0.75
9	δ 3-carene	13.842	0.07
10	α -Terpinene	14.323	0.08
11	o-Cymene	14.74	0.01
12	p-Cymene	14.874	0.9
13	Limonene	15.108	0.66
14	1,8-Cineole	15.252	0.12
15	Benzyl alcohol	15.644	0.05
16	(Z)- β -Ocimene	16.1	0.02
17	(E)- β -Ocimene	16.817	0.02
18	γ -Terpinene	17.36	0.01
19	cis-Linalool oxide	18.46	0.03
20	α -Terpinolene	19.547	0.07
21	Linalool	20.798	2.18
22	Hydrocinnamic aldehyde	25.502	0.07
23	Benzyl acetate	25.871	0.04
24	Terpinen-4-ol	26.547	0.08
25	α -Terpineol	27.739	0.24
26	Hydrocinnamyl alcohol	31.173	0.08
27	unknown	33.597	0.12
28	(E)-Cinnamaldehyde	34.413	1.32
29	Safrole	35.774	0.92
30	(E)-Cinnamyl alcohol	37.711	0.1
31	Eugenol	42.715	78.06
32	α -Copaene	42.89	0.46
33	β -Caryophyllene	46.093	3.08
34	(E)-Cinnamyl acetate	48.771	1.79
35	Bicyclogermacrene	51.984	0.11
36	α -Muurolene	52.609	0.04
37	γ -Cadinene	53.499	0.06
38	δ -Cadinene	54.387	0.14
39	Eugenyl acetate	55.366	1.86
40	Spathulenol	58.038	0.08
41	Caryophyllene oxide	58.309	0.72
42	Humulene epoxide II	60.221	0.1
43	τ -Cadinol	62.412	0.04
44	Benzyl Benzoate	65.4	3.31
45	unknown	66.583	0.02

46	unknown	71.136	0.06
47	unknown	71.345	0.23
48	unknown	71.487	0.04
49	unknown	73.302	0.04
Total identified			99.49%

