

Date: June 24th, 2020

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Cassia - 200565844

Type: Essential oil

Source: Cinnamomum cassia

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: June 23rd, 2020

Physical aspect: Light yellow liquid

CONCLUSION

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

Analyzed and approved by:

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Peak	Compound	RT	Area Sum %
1	Styrene	7.394	0.19
2	α -Pinene	9.364	0.09
3	Camphene	10.092	0.06
4	Benzaldehyde	10.779	0.87
5	β -Pinene	11.677	0.03
6	Benzofuran	12.893	0.01
7	Octanal	13.862	0.01
8	p-Cymene	14.884	0.03
9	Limonene	15.14	0.04
10	1,8-Cineole	15.297	0.01
11	Benzyl alcohol	15.652	0.04
12	Salicylaldehyde	16.016	0.3
13	Acetophenone	17.822	0.03
14	o-Guaiacol (o-Hydroxyanisole)	19.7	0.04
15	Phenylethyl Alcohol	21.478	0.51
16	ortho-vinylanisole (2-vinyl-anisole)	23.326	0.08
17	Hydrocinnamic aldehyde	25.468	0.63
18	3-Methyl-benzofuran	26.016	0.09
19	α -Terpineol	27.772	0.02
20	(Z)-Cinnamaldehyde	30.04	0.44
21	Hydrocinnamyl alcohol	31.213	0.13
22	o-Anisaldehyde	31.984	0.5
23	Phenyl ethyl acetate	33.56	0.09
24	(E)-Cinnamaldehyde	35.294	77.56
25	(E)-Cinnamyl alcohol	37.422	0.18
26	α -Ylangene	41.63	0.06
27	α -Copaene	42.73	0.73
28	β -Caryophyllene	45.953	0.14
29	Coumarin	47.248	2.16
30	trans- α -Bergamotene	47.717	0.07
31	(E)-Cinnamyl acetate	48.821	3.19
32	Aromandendrene	49.161	0.06
33	(E)- β -Farnesene	49.842	0.02
34	γ -Muurolene	50.719	0.11
35	Ar-Curcumene	51.506	0.06
36	Viridiflorene	51.954	0.08
37	Amorphene<alpha->	52.605	0.1
38	β -Bisabolene	53.506	0.19
39	trans-Calamenene	54.259	0.03
40	δ -Cadinene	54.377	0.19
41	(E)-o-Methoxycinnamaldehyde	55.287	9.67

42	(E)- α -Bisabolene	56.174	0.05
43	Nerolidol	57.851	0.12
44	Spathulenol	58.037	0.1
45	Caryophyllene oxide	58.321	0.07
46	τ -Cadinol	62.448	0.04
47	α -Cadinol	62.91	0.01
48	unknown	63.511	0.03
49	unknown	63.712	0.35
50	α -Bisabolol	63.929	0.04
51	Benzyl Benzoate	65.362	0.06
52	Phenylethyl benzoate	66.587	0.03
53	unknown	67.407	0.07
54	unknown	67.518	0.06
55	unknown	68.088	0.09
56	unknown	68.204	0.02
57	unknown	68.422	0.03
58	unknown	71.89	0.02
	Total identified		99.33%

