



COA and GC/MS
Frankincense Serrata Oil

Date: July 1st, 2020

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Organic Frankincense - 200643036

Type: Essential oil Source: Boswellia serrata

Country of Origin: India

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 30th, 2020

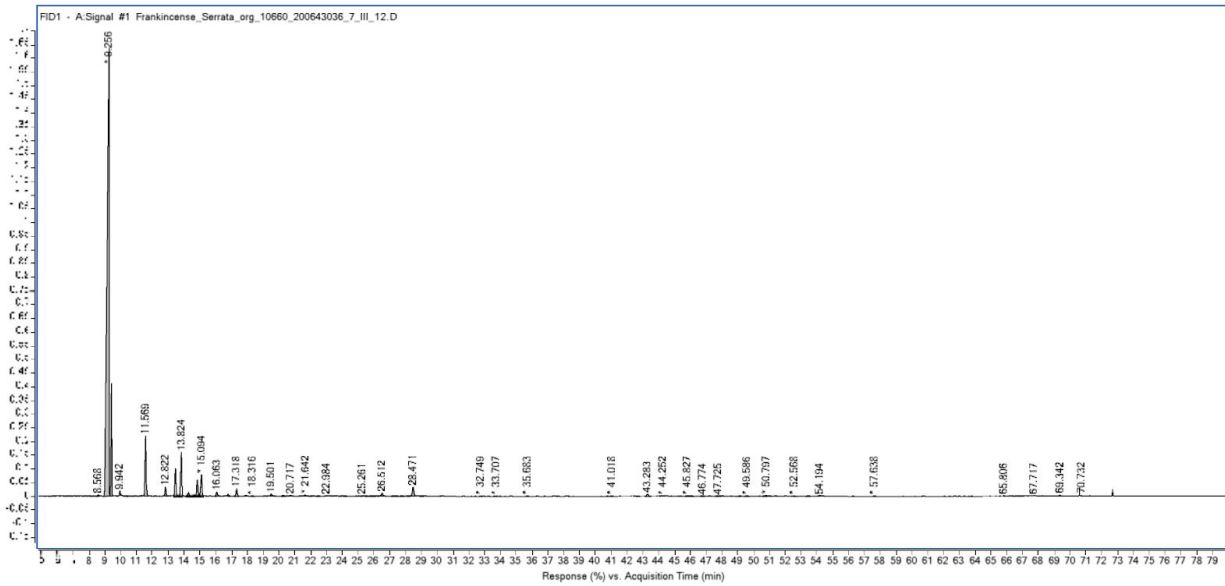
Physical aspect: Clear liquid

CONCLUSION

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

Peak	Compound	RT	Area Sum %
1	Bornylene	8.024	0.01
2	(3Z)-Hexenol	8.568	0.1
3	α -Thujene	9.256	71.46
4	α -Pinene	9.407	6.95
5	unknown	9.942	0.37
6	Camphene	10.044	0.09
7	Thuja-2,4(10)-diene	10.399	0.01
8	m-Cymene	11.328	0.05
9	Sabinene + β -Pinene	11.569	5.35
10	β -Myrcene	12.822	0.77
11	α -Phellandrene	13.452	2.42
12	δ^3 -carene	13.824	3.88
13	α -Terpinene	14.273	0.31
14	Carvomenthene	14.567	0.01
15	o-Cymene	14.697	0.04
16	p-Cymene	14.835	1.47
17	Limonene	15.094	2.13
18	(Z)- β -Ocimene	16.063	0.37
19	unknown	16.562	0.03
20	(E)- β -Ocimene	16.772	0.17
21	γ -Terpinene	17.318	0.69
22	cis-Sabinene hydrate	17.894	0.08
23	cis-p-Mentha-2,8-dien-1-ol	18.316	0.01
24	α -Terpinolene	19.501	0.21
25	trans-Sabinene hydrate	20.241	0.07
26	Linalool	20.717	0.08
27	unknown	21.545	0.01
28	β -Thujone	21.642	0.12
29	trans-p-2,8-Menthadien-1-ol	22.108	0.03
30	α -Campholenal	22.467	0.01
31	Allo-Ocimene	22.984	0.03
32	Pinocarveol<trans->	23.263	0.01
33	trans-para-Mentha-2-en-1-ol	23.582	0.03
34	trans-Verbenol	23.949	0.01
35	α -Phellandrene-8-ol analog	24.152	0.01
36	cis-Verbenol	25.261	0.02
37	Borneol	25.513	0.01
38	α -Phellandrene-8-ol	25.807	0.02
39	cis-Sabinol	25.982	0.05
40	Umbellulone	26.329	0.01
41	Terpinen-4-ol	26.512	0.33

42	unknown	27.207	0.02
43	p-Cymen-8-ol	27.398	0.02
44	α -Terpineol	27.739	0.03
45	unknown	28.18	0.01
46	Methyl chavicol	28.471	1.06
47	Verbenone	29.058	0.02
48	unknown	32.749	0.01
49	unknown	33.707	0.02
50	Bornyl acetate	35.683	0.02
51	α -Cubebene	40.73	0.01
52	α -Terpinyl acetate	41.018	0.02
53	α -Copaene	42.669	0.06
54	β -Bourbonene	43.283	0.28
55	unknown	44.252	0.05
56	Methyleugenol	45.827	0.07
57	β -Caryophyllene & β -Ylangene	45.999	0.03
58	β -Copaene	46.774	0.03
59	trans- α -Bergamotene	47.725	0.02
60	Isogermacrene D	47.978	0.01
61	Alloaromadendrene	49.131	0.01
62	unknown	49.586	0.02
63	γ -Muurolene + Germacrene D	50.797	0.09
64	unknown	50.953	0.07
65	α -Muurolene	52.568	0.01
66	γ -Cadinene	53.461	0.01
67	δ -Cadinene	54.194	0.08
68	Elemicin	57.638	0.02
69	α -Phellandrene dimer I	65.806	0.02
70	α -Phellandrene dimer II	66.041	0.01
71	Cembrene A	67.717	0.01
72	Verticilla-4(20),7,11-triene	68.246	0.01
73	Cembrenol	69.342	0.03
74	unknown	69.413	0.02
75	unknown	70.732	0.02
76	unknown	71.25	0.02
	Total identified		99.70%



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