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GC/MS & COA

Bulgarian Lavender Oil – 200734483

October 7, 2020

ANALYSIS

Type: Essential oil

Source: Lavandula angustifolia

Analysis date: October 7, 2020

Physical aspect: Colorless liquid

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method. This oil complies with ISO specifications for Bulgarian Lavender Oil.

Physico-Chemical Properties: -

Properties	Results
Refractive Index at 20°C	1.461
Specific Gravity at 20°C	0.880

Peak	Compound	RT	Area Sum %
1	Butyl acetate	4.801	0.02
2	Furfural	5.105	0.12
3	(2E)-Hexenal	6.042	0.03
4	cis-2-Hexenol	6.523	0.11
5	Tricyclene	8.598	0.02
6	α -Thujene	8.932	0.14
7	α -Pinene	9.202	0.29

8	Camphene	9.922	0.2
9	Sabinene + β -Pinene	11.499	0.09
10	1-Octen-3-ol	12.031	0.33
11	3-Octanone	12.454	1.07
12	β -Myrcene	12.698	0.99
13	3-Octanol	13.053	0.21
14	Butyl butylate	13.143	0.07
15	α -Phellandrene	13.312	0.04
16	δ 3-carene	13.668	0.17
17	α -Terpinene	14.143	0.08
18	Hexyl acetate	14.354	0.56
19	o-Cymene	14.563	0.05
20	p-Cymene	14.698	0.18
21	Limonene + β -Phellandrene	14.941	0.68
22	1,8-Cineole	15.069	0.9
23	(Z)- β -Ocimene	15.994	6.98
24	(E)- β -Ocimene	16.671	3.68
25	γ -Terpinene	17.186	0.26
26	cis-Sabinene hydrate	17.785	0.04
27	cis-Linalool oxide	18.268	0.11
28	α -Terpinolene	19.361	0.16
29	trans-Linalool oxide	19.517	0.09
30	Linalool	20.982	31.68
31	Hotrienol	21.084	0.05
32	1-Octen-3-yl-acetate	21.901	1
33	Allo-Ocimene	22.857	0.69
34	Camphor	23.501	0.24
35	Hexyl isobutyrate	24.761	0.05
36	Borneol	25.35	0.63
37	Lavandulol	26.089	1.11

38	Terpinen-4-ol	26.497	5.4
39	Cryptone	27.072	0.21
40	m-Cymen-8-ol	27.26	0.05
41	α -Terpineol	27.608	1.37
42	Hexyl butyrate	28.36	0.36
43	unknown	30.051	0.04
44	Bornyl formate	30.481	0.04
45	Nerol	31.042	0.22

46	Hexyl isovalerate	31.502	0.08
47	Carvone	31.998	0.06
48	Linalyl acetate	33.858	25.63
49	Bornyl acetate	35.545	0.16
50	Lavandulol acetate	36.653	3.2
51	Neryl acetate	42.517	0.42
52	β -Bourbonene	43.112	0.03
53	Geranyl acetate	44.117	0.72
54	Hexyl hexanoate	44.337	0.06
55	β -Caryophyllene	45.803	3.57
56	α -Santalene	46.217	0.42
57	Coumarin	46.966	0.03
58	trans- α -Bergamotene	47.547	0.13
59	Sesquisabinene A	48.192	0.06
60	α -Humulene	48.387	0.11
61	Lavandulyl butyrate	49.266	0.1
62	(E)- β -Famesene	49.705	3.51
63	Germacrene D	50.628	0.36
64	trans- β -Bergamotene	51.222	0.05
65	β -Bisabolene	51.841	0.01

66	γ-Cadinene	53.28	0.12
67	unknown	53.593	0.03
68	unknown	53.879	0.03
69	unknown	55.893	0.02
70	Caryophyllene oxide	58.053	0.18
71	T-Cadinol	62.259	0.06
72	unknown	67.717	0.01
	Total identified		99.87%

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