



COA and GC/MS Spearmint Oil

Product - Spearmint Oil

Lot # -540

Appearance - Fluid Liquid

Manufacturing date - May 27, 2020

Retest date - May 2023

Color - Yellow Liquid

Odor - Conforms to standard

Sample identification: Spearmint - 540

Type - Essential oil

Source - Mentha spicata

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: May 26th, 2020

Physical aspect: Yellow liquid

CONCLUSION

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

ISO specifications.

Peak	Compound	RT	Area Sum %
1	cis-2-Hexenol	7.699	0.07
2	unknown	8.601	0.09
3	α -Thujene	9.082	0.04
4	α -Pinene	9.352	0.98
5	3-Methylcyclohexanol	9.877	0.05
6	Camphene	10.081	0.03
7	3-Methylcyclohexanone	10.207	0.14
8	Thuja-2,4(10)-diene	10.435	0.01
9	Sabinene + β -Pinene	11.667	1.84
10	1-Octen-3-ol	12.223	0.03
11	6-Methyl-5-heptene-2-one	12.652	0.08
12	β -Myrcene	12.879	1.56
13		13.222	0.46
14	unknown	13.442	0.09
15	α -Terpinene	14.333	0.06
16	p-Cymene	14.912	0.39
17	Limonene + 1,8-Cineole	15.342	23.91
18	(E)- β -Ocimene	16.124	0.04
19	3,5,5-Trimethyl-1-hexanol	16.72	0.05
20	(E)- β -Ocimene	16.819	0.05
21	γ -Terpinene	17.37	0.14
22	trans-Sabinene hydrate	17.93	0.2
23	Octanol	18.68	0.05
24	α -Terpinolene	19.548	0.1
25	p-Cymenene	19.61	0.04
26	cis-Sabinene hydrate	20.293	0.03
27	Linalool	20.759	0.05

28	Amyl isovalerate	21.176	0.03
29	cis-para-Menth-2-en-1-ol	22.067	0.11
30	3-Octyl acetate	22.981	0.1
31	trans-Pinocarveol	23.266	0.05
32	unknown	23.462	0.05
33	Menthone	24.645	0.21
34	Isomenthone	25.487	0.09
35	Neo-Menthol	25.623	0.16
36	δ -Terpineol	25.811	0.05
37	Menthol	26.349	0.92
38	Terpinen-4-ol	26.57	0.55
39	α -Terpineol	27.792	0.23
40	cis-Dihydrocarvone	28.28	1.79
41	unknown	28.35	0.23
42	trans-Dihydrocarvone	28.812	0.22

43	cis-Carveol	30.236	0.04
44	trans-Carveol	30.72	0.48
45	Carvone	32.88	60.27
46	Piperitenone	33.148	0.25
47	unknown	33.297	0.05
48	neo-Menthyl acetate	35.142	0.1
49	Dihydroedulan I	36.045	0.04
50	Menthyl acetate	36.647	0.06
51	Dihydrocarvyl acetate	39.469	0.16
52	cis-Carvyl Acetate	42.256	0.17
53	unknown	42.677	0.04
54	β -Bourbonene	43.335	1.04

55	β -Elemene	44.196	0.13
56	cis-Jasmone	44.664	0.03
57	Isocaryophyllene	44.87	0.06
58	β -Caryophyllene	45.963	0.74
59	β -Copaene	46.81	0.11
60	Isogermacrene D	47.999	0.1
61	α -Humulene	48.611	0.08
62	unknown	49.596	0.08
63	(E)- β -Famesene	49.839	0.23
64	Germacrene D	50.822	0.15
65	Viridiflorene	51.954	0.05
66	unknown	52.593	0.01
67		53.482	0.02
68	δ -Cadinene	54.372	0.04
69	Caryophyllene oxide	58.263	0.07
	Total Identified		99.59%

DISCLAIMER:

The information contained in this Certificate of Analysis and/or GC/MS is obtained from current and reliable sources. Jade Bloom provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Jade Bloom, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Jade Bloom expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Jade Bloom as to the fitness for any use. The liability Jade Bloom is limited to the value of the goods and does not include any consequential loss. Jade Bloom shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Jade Bloom shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. This document is computer automated and is valid without signature