



# JADE BLOOM

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## GC/MS & COA

**Spearmint – 201277793**

**December 1, 2020**

### **ANALYSIS**

**Type:** Essential oil

**Source :** Mentha spicata

**Analysis date:** December 1, 2020

**Physical aspect:** Colorless to yellow liquid

### **CONCLUSION**

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

<b>Physico-Chemical Properties</b>	<b>Specifications</b>	<b>Results</b>
<u>Specific Gravity at 20° C</u>	0.9234	Complies
<u>Refractive Index at 20° C</u>	1.488	Complies
<u>Optical Rotation at 20° C</u>	-55.280	Complies

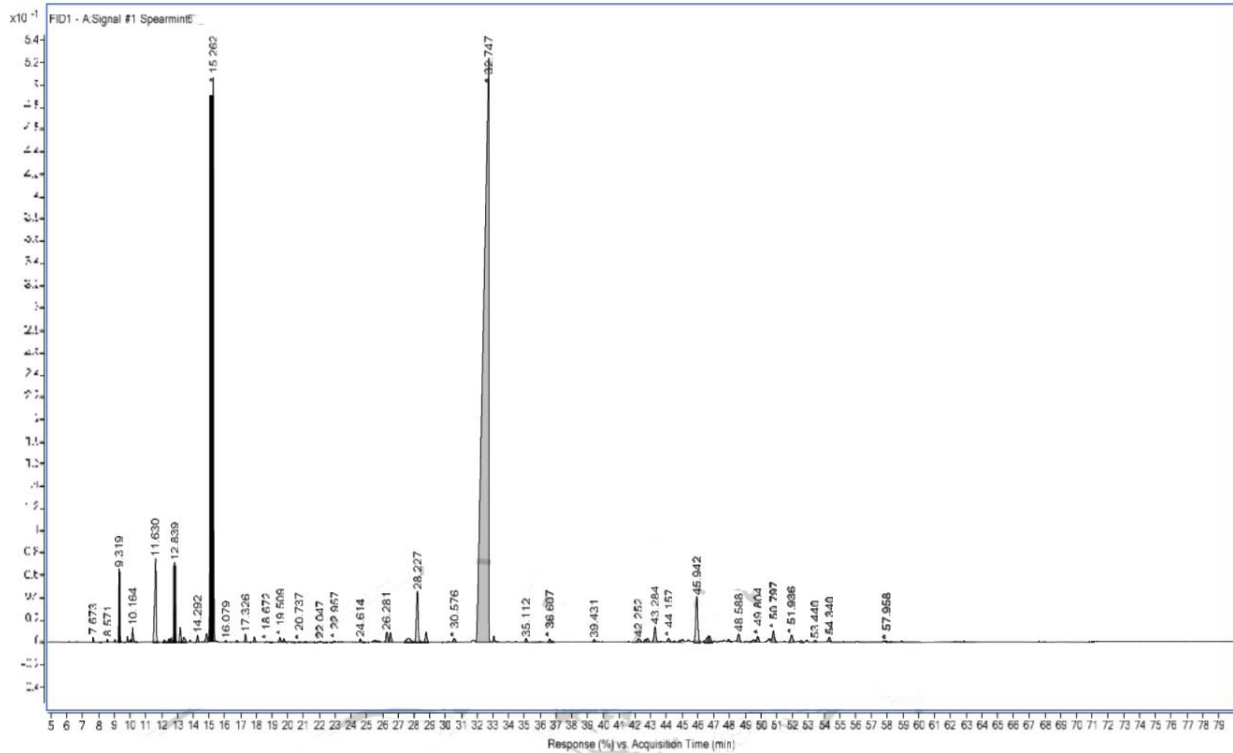
<b>Peak</b>	<b>Compound</b>	<b>RT</b>	<b>Area Sum %</b>
1	cis-2-Hexenol	7.673	0.08
2	unknown	8.571	0.05
3	$\alpha$ -Thujene	9.049	0.05
4	$\alpha$ -Pinene	9.319	1.33
5	3-Methylcyclohexanol	9.835	0.1
6	Camphene	10.047	0.05
7	3-Methylcyclohexanone	10.164	0.26
8	Thuja-2,4(10)-diene	10.397	0.02
9	Sabinene + $\beta$ -Pinene	11.63	2.27

10	1-Octen-3-ol	12.192	0.05
11	trans-para-Menthane	12.463	0.06
12	6-Methyl-5-heptene-2-one	12.605	0.09
13	$\beta$ -Myrcene	12.839	1.71
14	3-octanol	13.182	0.32
15	unknown	13.402	0.17
16	$\alpha$ -Terpinene	14.292	0.16
17	p-Cymene	14.864	0.28
18	Limonene + 1,8-Cineole	15.262	22.29
19	(E)- $\beta$ -Ocimene	16.079	0.04
20	(E)- $\beta$ -Ocimene	16.79	0.05
21	$\gamma$ -Terpinene	17.326	0.2
22	trans-Sabinene hydrate	17.893	0.14
23	Octanol	18.672	0.02
24	$\alpha$ -Terpinolene	19.509	0.14
25	unknown	19.756	0.08
26	p-Cymenene + cis-Sabinene hydrate	20.273	0.03
27	Linalool	20.737	0.03
28	Amyl isovalerate	21.141	0.03
29	cis-para-Menth-2-en-1-ol	22.047	0.03
30	3-Octyl acetate	22.957	0.05
31	trans-Pinocarveol	23.246	0.02
32	unknown	23.436	0.02
33	Menthone	24.614	0.1
34	Isomenthone	25.511	0.06
35	Neo-Menthol	25.544	0.05
36	$\delta$ -Terpineol	25.776	0.04
37	Menthol	26.281	0.35
38	Terpinen-4-ol	26.516	0.29
39	$\alpha$ -Terpineol	27.631	0.33

40	cis-Dihydrocarvone	28.227	1.67
41	trans-Dihydrocarvone	28.767	0.3
42	cis-Carveol	30.209	0.04
43	trans-Carveol	30.576	0.14

44	Carvone	32.747	60.54
45	Piperitenone	33.062	0.14
46	unknown	33.275	0.02
47	neo-Menthyl acetate	35.112	0.11
48	Dihydroedulan I	36.002	0.02
49	Menthyl acetate	36.607	0.11
50	Thymol	36.778	0.05
51	Dihydrocarvyl acetate	39.431	0.08
52	cis-Carvyl Acetate	42.252	0.18
53	unknown	42.667	0.09
54	Bourbonene isomer	42.817	0.15
55	$\beta$ -Bourbonene	43.284	0.59
56	$\beta$ -Elemene	44.157	0.13
57	cis-Jasmone	44.505	0.04
58	Isocaryophyllene	44.852	0.05
59	$\beta$ -Caryophyllene	45.942	1.79
60	unknown	46.644	0.19
61	$\beta$ -Copaene	46.73	0.3
62	Isogermacrene D	47.967	0.07
63	$\alpha$ -Humulene	48.588	0.28
64	unknown	49.55	0.11
65	(E)- $\beta$ -Famesene	49.804	0.19
66	Germacrene D	50.797	0.51
67	Viridiflorene	51.936	0.32
68	unknown	52.561	0.08
69	$\gamma$ -cadinene	53.44	0.05

70	$\delta$ -Cadinene	54.34	0.15
71	Spathulenol	57.958	0.05
72	Caryophyllene oxide	58.227	0.05
	Total Identified		99.27%



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