



# Jade Bloom

Certified GC-MS Report Prepared By Dr. Hussam Bdour

## GC-MS Profiling Analysis Prepared for Jade Bloom, Inc

**Date:** 2-19-2019  
**Sample:** Peppermint  
**Type:** Essential Oil  
**Source:** *Mentha piperita*  
**Batch:** 180906680

Peak	Compound	RT	Area Sum %
1	cis-2-Hexenol	8.115	0.04
2	$\alpha$ -Thujene	9.556	0.06
3	$\alpha$ -Pinene	9.831	0.94
4	Camphene	10.579	0.05
5	3-Methylcyclohexanone	10.714	0.07
6	Thuja-2,4(10)-diene	10.921	0.02
7	Sabinene	12.126	0.29
8	$\beta$ -Pinene	12.205	1.38
9	1-Octen-3-ol	12.782	0.05
10	m-Menthane	13.058	0.02
11	1-Octen-3-ol	13.186	0.03
12	$\beta$ -Myrcene	13.432	0.23
13	3-Octanol	13.767	0.12
14	$\alpha$ -Phellandrene	14.013	0.07
15	$\delta$ 3-carene	14.445	0.03
16	$\alpha$ -Terpinene	14.909	0.09
17	1-p-Menthene	15.177	0.03
18	p-Cymene	15.473	0.2
19	Limonene	15.726	2.66
20	1,8-Cineole	15.823	5.9
21	2-Ethylhexanol	16.114	0.04
22	(Z)- $\beta$ -Ocimene	16.712	0.03
23	(E)- $\beta$ -Ocimene	17.422	0.04
24	$\gamma$ -Terpinene	17.993	0.13
25	cis-Sabinene hydrate	18.558	0.07
26	Octanol	19.283	0.09
27	$\alpha$ -Terpinolene	20.193	0.12
28	trans-Sabinene hydrate	20.946	0.03
29	2-Methylbutyl-2-methylbutyrate	21.242	0.03
30	Linalool	21.343	0.06
31	Amyl isovalerate	21.79	0.02
32	unknown	23.843	0.05
33	cis-p-Mentha-2,8-dien-1-ol	24.217	0.03
34	Isopulegol	24.595	0.09
35	Menthone	25.315	23.06
36	Isomenthone	26.092*	5.13
37	Menthofuran	26.092*	[5.13]
38	Neo-Menthol	26.25	3.77
39	Menthol	27.024	41.4
40	Terpinen-4-ol	27.222	0.4
41	Isomenthol	27.709	0.53
42	$\alpha$ -Terpineol	28.377	0.91
43	Pulegone	32.297	0.67
44	Carvone	32.754	0.04
45	Piperitenone	33.517	0.27

46	neo-Menthyl acetate	35.649	0.23
47	Dihydroedulan I	36.248	0.04
48	Dihydroedulan II	36.756	0.04
49	Menthyl acetate	37.243	5.74
50	Isomenthyl acetate	38.21	0.12
51	Bicycloelemene	40.392	0.09
52	$\alpha$ -Cubebene	41.697	0.04
53	$\alpha$ -Copaene	43.356	0.28
54	$\beta$ -Bourbonene	43.983	0.16
55	$\beta$ -Elemene	44.846	0.05
56	unknown	45.744	0.12
57	unknown	46.073	0.12
58	$\beta$ -Caryophyllene	46.622	3.05
59	unknown	47.072	0.03
60	$\beta$ -Copaene	47.427	0.09
61	unknown	47.72	0.04
62	$\alpha$ -Humulene	49.271	0.1
63	(E)- $\beta$ -Farnesene	50.435	0.04
64	Germacrene D	51.48	0.19
65	Bicyclogermacrene	52.628	0.07
66	$\delta$ -Cadinene	55.011	0.05
67	Caryophyllene oxide	58.858	0.02
68	Viridiflorol	59.586	0.03
	<b>Total identified</b>		<b>99.64%</b>

FID1 - A:Signal #1 Peppermint\_10000\_180906680\_46\_26.D

