

Client



Source



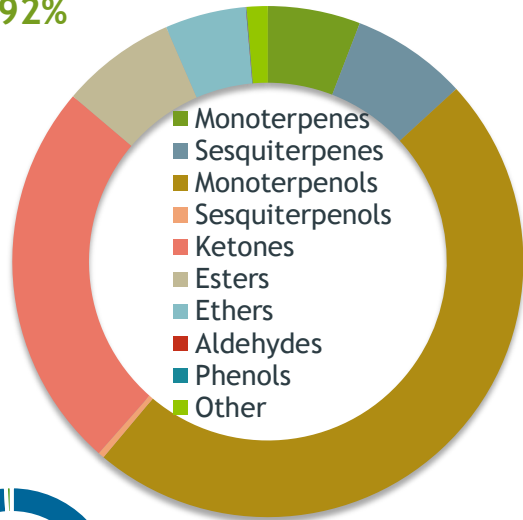
Peppermint (*Mentha x piperita*)
GP20-405

Sample

Peppermint (*Mentha x piperita*)
Batch #:..... GP20-405
Type:..... Essential Oil
CAS Number:... 8006-90-4
Natural Sourcing LLC

Monoterpenols

47.92%



Client



Website



Primary

39.39% Menthol
16.17% Menthone
6.52% Menthyl acetate



Percentage Identified

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Peppermint (*Mentha x piperita*)

Internal Number: | EVS-4400



Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306
Gainesville, FL 32601

317.361.5044 |
<https://essentialvalidationservices.com/>

Alan Chastain

Monoterpenes	5.	5.86%
Sesquiterpenes	7.3	7.34%
Monoterpenols	47.92%	47.92%
Sesquiterpenols		0.39%
Ketones	24.69%	24.69%
Esters	7.2	7.29%
Ethers	5.	5.13%
Aldehydes		0.02%
Phenols		0.03%
Other		1.33%

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Client



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Cosmetic and Personal Care Ingredient Specialists
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Source

Peppermint (*Mentha x piperita*)

GP20-405

Total Percentage		99.12%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.57	0.02%	(E)-2-Hexenal	Aliphatic Aldehyde
2	5.64	0.02%	(E)-Hex-3-en-1-ol	Aliphatic Alcohol
3	6.06	0.01%	1-Hexanol	Aliphatic Alcohol
4	6.88	0.02%	2,5-Diethyltetrahydrofuran	Furan
5	7.92	0.06%	alpha-Thujene	Monoterpene
6	8.17	0.65%	alpha-Pinene	Monoterpene
7	8.78	0.02%	Camphene	Monoterpene
8	8.90	0.02%	3-Methyl cyclohexanone	Aliphatic Ketone
9	9.73	0.48%	Sabinene	Monoterpene
10	9.89	0.94%	beta-Pinene	Monoterpene
11	10.11	0.10%	1-Octen-3-ol	Aliphatic Alcohol
12	10.31	0.02%	Octan-3-one	Aliphatic Ketone
13	10.48	0.22%	Myrcene	Monoterpene
14	10.82	0.30%	3-Octanol	Aliphatic Alcohol
15	11.02	0.01%	Pseudolimonene	Monoterpene
16	11.12	0.02%	alpha-Phellandrene	Monoterpene
17	11.59	0.44%	alpha-Terpinene	Monoterpene
18	11.92	0.13%	para-Cymene	Monoterpene
19	12.13	1.58%	Limonene	Monoterpene
20	12.24	5.10%	1,8-Cineole	Monoterpene Ether
21	12.51	0.30%	(Z)-beta-Ocimene	Monoterpene
22	12.97	0.09%	(E)-beta-Ocimene	Monoterpene
23	13.44	0.67%	gamma-Terpinene	Monoterpene
24	13.96	1.06%	trans-Sabinene hydrate	Monoterpenol
25	14.66	0.19%	Terpinolene	Monoterpene
26	15.40	0.50%	Linalool	Monoterpenol
27	15.55	0.08%	2-Methylbutyl 2-methylbutyrate	Aliphatic Ester
28	15.71	0.02%	Isoamyl isovalerate	Aliphatic Ester
29	15.81	0.17%	2-Methyl Butyl Isovalerate	Monoterpene Ester
30	16.36	0.07%	Octan-3-yl acetate	Aliphatic Ester
31	16.44	0.09%	cis-para-Menth-2-en-1-ol	Monoterpenol
32	16.69	0.06%	Alloocimene	Monoterpene
33	17.17	0.04%	cis-Sabinol	Monoterpenol
34	17.30	0.05%	trans-para-Menth-2-en-1-ol	Monoterpenol
35	17.53	0.10%	neo-Isopulegol	Monoterpenol

Client



Source



Peppermint (*Mentha x piperita*)
GP20-405

Number	RT	Area %	Compound Name	Chemical Family
36	17.944	16.17%	Menthone	Monoterpenol
37	18.28	5.82%	Isomenthone	Monoterpene Ketone
38	18.30	Co-Eluting	Menthofuran	Monoterpene Ether
39	18.57	5.02%	NeoMenthol	Monoterpenol
40	18.75	0.14%	Isopulegone	Monoterpene Ketone
41	19.14	39.39%	Menthol	Monoterpenol
42	19.44	1.06%	Isomenthol	Monoterpenol
43	19.60	0.31%	Neoisomenthol	Monoterpenol
44	19.73	0.25%	alpha-Terpineol	Monoterpenol
45	20.37	0.03%	trans-Piperitol	Monoterpenol
46	21.12	0.01%	Nerol	Monoterpenol
47	21.26	0.01%	Citronellol	Monoterpenol
48	21.61	1.88%	Pulegone	Monoterpene Ketone
49	21.88	0.03%	Carvone	Monoterpene Ketone
50	22.30	0.61%	Piperitone	Monoterpene Ketone
51	23.24	0.38%	neo-Menthyl acetate	Monoterpene Ester
52	24.05	6.52%	Menthyl acetate	Monoterpene Ester
53	24.79	0.03%	neo-Isolsopulegyl acetate	Monoterpene Ester
54	25.80	0.16%	delta-Elemene	Sesquiterpene
55	26.37	0.02%	Myrtenyl acetate	Monoterpene Ester
56	26.66	0.03%	Eugenol	Phenylpropanoid
57	27.65	0.07%	alpha-Copaene	Sesquiterpene
58	27.97	0.54%	beta-Bourbonene	Sesquiterpene
59	28.27	0.19%	beta-Elemene	Sesquiterpene
60	28.85	0.02%	Isocaryophyllene	Sesquiterpene
61	29.45	2.58%	beta-Caryophyllene	Sesquiterpene
62	29.89	0.16%	beta-Copaene	Sesquiterpene
63	30.91	0.10%	alpha-Humulene	Sesquiterpene
64	31.00	0.40%	(E)-beta-Farnesene	Sesquiterpene
65	31.09	0.03%	allo-Aromadendrene	Sesquiterpene
66	31.19	0.03%	beta-Gurjunene	Sesquiterpene
67	31.44	0.04%	Dauca-5,8-diene	Sesquiterpene
68	31.78	0.03%	gamma-Murolene	Sesquiterpene
69	31.99	2.43%	Germacrene D	Sesquiterpene
70	32.27	0.01%	beta-Selinene	Sesquiterpene
71	32.41	0.03%	Viridiflorene	Sesquiterpene

ESSENTIAL VALIDATION SERVICES | 14 / SW 2ND AVE GAINESVILLE, FLORIDA 32601 | 352-350-5044

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
 - This report may not be published without the consent of Essential Validation Services.
 - Chromatograph image may be requested
 - This report is valid for 1 year from the analyzed date

