

Client



Source



Melissa (Melissa officinalis)
FR-59240

Sample

Melissa (Melissa officinalis)
Batch #:..... FR-59240
Type:..... Essential Oil
CAS Number:... 8014-71-9
Nature's Gift

Client



Website

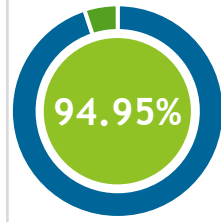
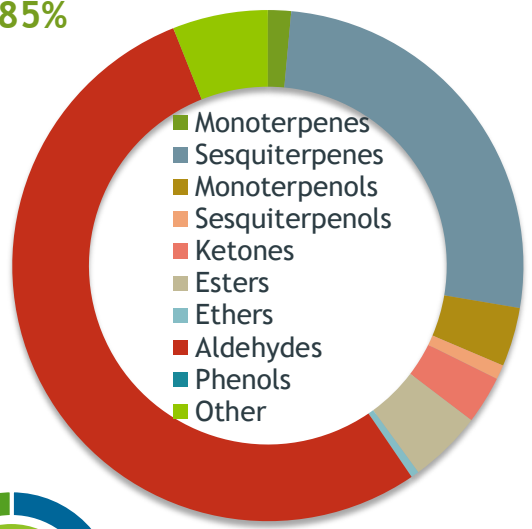


Primary

27.46% Citral
19.89% Neral
16.13% beta-Caryophyllene

Aldehydes

51.85%



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 Melissa (Melissa officinalis)

Internal Number: | EVS-4927



Essential Validation Services

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

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

Alan Chastain

Monoterpenes	1.42%
Sesquiterpenes	25.40%
Monoterpenols	3.62%
Sesquiterpenols	0.89%
Ketones	2.94%
Esters	4.50%
Ethers	0.49%
Aldehydes	51.85%
Phenols	0.00%
Other	5.85%

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- 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- This report may not be published without the consent of Essential Validation Services.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

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Total Percentage		94.95%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.04	0.01%	Octane	Alkane
2	4.11	0.01%	Hexanal	Aliphatic Aldehyde
3	5.42	0.02%	(E)-2-Hexenal	Aliphatic Aldehyde
4	5.47	0.04%	(E)-Hex-3-en-1-ol	Aliphatic Alcohol
5	5.78	0.01%	(E)-2-Hexenol	Aliphatic Alcohol
6	5.89	0.03%	1-Hexanol	Aliphatic Alcohol
7	7.96	0.03%	alpha-Pinene	Monoterpene
8	9.50	0.01%	Sabinene	Monoterpene
9	9.66	0.02%	beta-Pinene	Monoterpene
10	9.88	0.42%	1-Octen-3-ol	Aliphatic Alcohol
11	10.04	2.06%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
12	10.25	0.11%	Myrcene	Monoterpene
13	10.43	0.01%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
14	10.59	0.05%	3-Octanol	Aliphatic Alcohol
15	10.84	0.01%	Octanal	Aliphatic Aldehyde
16	10.93	0.07%	(Z)-3-Hexenyl acetate	Aliphatic Ester
17	11.25	0.02%	Hexyl acetate	Aliphatic Ester
18	11.36	0.02%	8.17 Hexenyl acetate<2E->	Aliphatic Ester
19	11.68	0.01%	para-Cymene	Monoterpene
20	11.88	0.14%	Limonene	Monoterpene
21	11.99	0.02%	1,8-Cineole	Monoterpene Ether
22	12.27	0.07%	(Z)-beta-Ocimene	Monoterpene
23	12.72	0.98%	(E)-beta-Ocimene	Monoterpene
24	12.93	0.02%	9.50 Methyl-2-cyclohexen-1-one<3->	0.00
25	13.19	0.01%	gamma-Terpinene	Monoterpene
26	13.74	0.01%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
27	13.88	0.01%	1-Octanol	Aliphatic Alcohol
28	13.98	0.01%	10.20 Octenol<5Z->	0.00
29	15.05	0.02%	Perillene	Monoterpene Ether
30	15.13	0.60%	Linalool	Monoterpenol
31	15.23	0.10%	alpha-Pinene oxide	Monoterpene Ether
32	15.36	0.09%	Nonanal	Aliphatic Aldehyde
33	15.56	0.09%	cis-Rose oxide	Monoterpene Ether
34	16.29	0.04%	trans-Rose oxide	Monoterpene Ether
35	16.77	0.30%	alpha-Thujone	Monoterpene Ketone

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Number	RT	Area %	Compound Name	Chemical Family
36	17.104	0.06%	exo-Isocitral	Monoterpene Ketone
37	17.26	0.58%	Camphor	Monoterpene Ketone
38	17.52	3.22%	Citronellal	Monoterpene Aldehyde
39	17.68	0.05%	neo-Isopulegol	Monoterpenol
40	17.95	0.35%	(Z)-isocitral	Monoterpene Aldehyde
41	18.33	0.05%	Rosefuran epoxide	Monoterpene Ether
42	18.51	0.10%	Isopulegol	Monoterpenol
43	18.81	0.71%	(E)-isocitral	Monoterpene Aldehyde
44	19.23	0.03%	Methyl salicylate	Phenolic Ester
45	19.41	0.08%	Dihydrocarveol	Monoterpene Ether
46	20.23	0.02%	Myrtenal	Monoterpene Aldehyde
47	20.45	0.07%	trans-Carveol	Monoterpenol
48	20.85	1.01%	Nerol Isomer	
49	21.04	0.50%	Citronellol	Monoterpenol
50	21.51	19.89%	Neral	Monoterpene Aldehyde
51	22.07	2.18%	Nerol	Monoterpenol
52	22.38	0.55%	Methyl citronellate	Monoterpene Ester
53	22.90	27.46%	Citral	Monoterpene Aldehyde
54	23.19	0.11%	Geraniol	Monoterpenol
55	24.15	0.10%	Geranyl formate	Monoterpene Ester
56	24.32	0.01%	Tridecane	Alkane
57	24.58	0.01%	Undecanal	Sesquiterpene Aldehyde
58	25.15	0.71%	Methyl geranate	Monoterpene Ester
59	26.18	0.04%	alpha-Cubebene	Sesquiterpene
60	26.42	0.08%	Neric acid	Monoterpene Acid
61	26.79	0.14%	Neryl acetate	Monoterpene Ester
62	27.37	0.78%	alpha-Copaene	Sesquiterpene
63	27.65	2.77%	Geranyl acetate	Monoterpene Ester
64	27.91	0.28%	beta-Cubebene	Sesquiterpene
65	27.99	0.49%	beta-Elemene	Sesquiterpene
66	28.29	0.01%	1-Tetradecene	Alkene
67	28.56	0.08%	cis-Caryophyllene	Sesquiterpene
68	29.21	16.13%	beta-Caryophyllene	Sesquiterpene
69	29.60	0.19%	Sibirene	Sesquiterpene
70	29.83	0.03%	cis-alpha-Bergamotene	Sesquiterpene
71	30.46	0.09%	beta-Copaene	Sesquiterpene

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72	30.63	1.24%	alpha-Humulene	Sesquiterpene
73	30.73	0.09%	(Z)-beta-Farnesene	Sesquiterpene
74	30.81	0.17%	Aromadendrene	Sesquiterpene
75	30.91	0.04%	beta-Gurjunene	Sesquiterpene
76	31.50	0.17%	cis-Cadina-1(6),4-diene	Sesquiterpene
77	31.70	3.53%	Germacrene D	Sesquiterpene
78	31.98	0.02%	gamma-Gurjunene	Sesquiterpene
79	32.11	0.02%	cis-Muurola-4(14),5-diene	Sesquiterpene
80	32.18	0.02%	gamma-Murolene	Sesquiterpene
81	32.29	0.35%	10-epi-beta-Acoradiene	Sesquiterpene
82	32.47	0.32%	alpha-Amorphene	Sesquiterpene
83	32.82	0.22%	29.03 Farnesene<(E,E)-alpha->	0.00
84	33.01	0.31%	28.53 Muurola-4(14),5-diene<trans->	0.00
85	33.26	1.23%	beta-Cadinene	Sesquiterpene
86	33.77	0.04%	beta-Curcumene	Monoterpene
87	33.94	0.09%	gamma-Cadinene	Sesquiterpene
88	34.42	0.08%	cis-Sesquisabinene hydrate	Monoterpene Ester
89	35.00	0.02%	(E)-Nerolidol	Sesquiterpenol
90	35.30	0.01%	(Z)-3-Hexenyl benzoate	Monoterpene Ester
91	35.45	0.44%	31.32 Bourbonanone<1-nor->	0.00
92	35.60	1.80%	31.35 Longipinanol<epi->	0.00
93	36.65	0.09%	Caryophyllene oxide	Sesquiterpene Ether
94	36.93	0.03%	Viridiflorol	Sesquiterpenol
95	37.40	0.04%	1,10-di-epi-Cubenol	Sesquiterpenol
96	37.94	0.23%	34.38 Cadinol<epi-alpha-> (=tau-cadinol)	0.00
97	38.12	0.08%	T-Cadinol	Sesquiterpenol
98	38.43	0.65%	T-Muurolol	Sesquiterpenol
99	39.00	0.06%	Pogostol	Sesquiterpenol
100	40.34	0.01%	Heptadecane	Alkane
101	41.48	0.01%	37.31 Farnesal<2Z,6E->	0.00
102	47.21	0.04%	Nonadecane	Alkane
103	48.59	0.07%	Cembrene	Diterpene
104	51.58	0.01%	Geranyl Linalool	Sesquiterpenol