

Ylang Ylang VOP

Madagascar
Batch #MA-59117

Aldehydes 0.13%

geranial	0.06
benzaldehyde	0.01
nonanal	0.04
neral	0.02

Esters 19.57%

geranyl acetate	13.18
benzyl benzoate	4.35
methyl benzoate	3.31
benzyl acetate	3.21
benzyl salicylate	1.37
(E) cinnamyl acetate	1.03
(E,E) farnesyl acetate	0.99
prenyl benzoate	0.88
prenyl acetate	0.47
3-methyl-3-buten-1-yl acetate	0.16
methyl salicylate	0.13
(Z)-3-hexenyl acetate	0.11
hexyl acetate	0.09
eugenyl acetate	0.08
geranyl benzoate	0.08
para-cresyl acetate	0.07
ethyl benzoate	0.06
neryl acetate	0.03
elemol acetate	0.02
isoamyl acetate	0.02
2-methylbutyl acetate	0.02
(Z)-3-hexenyl benzoate	0.02
butyl acetate	0.01

Ethers 5.09%

para-cresyl methyl ether	4.76
1,8 cineole	0.26
caryophyllene oxide	0.07

Ketones 0.02%

2-hexanone	0.01
6-methyl-5-hepten-2-one	0.01

Monoterpenes 0.74%

α pinene	0.33
myrcene	0.17
β pinene	0.12
limonene	0.05
(E) β ocimene	0.03
terpinolene	0.02
camphene	0.01
(Z) β ocimene	0.01

Monoterpenols 17.15%

linalool	14.34
geraniol	2.60
α terpineol	0.18
nerol	0.03
cis linalool oxide (5)	0.01
terpinen-4-ol	0.01

Other 0.01%

prenol	0.01
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Sesquiterpenes 41.16%

germacrene d	15.01
β caryophellene	10.54
(E,E) α farnesene	5.26
α humulene	3.18
δ cadinene	1.39
(Z,E) α farnesene	1.08
β copaene	0.83
α copaene	0.67
β elemene	0.41
alloaromadendrene	0.40
α muurolene	0.39
bicyclogermacrene	0.39
γ cadinene	0.36
δ elemene	0.20
cis-cadina-1(6),4-diene	0.18
γ muurolene	0.17
β cubebene	0.17
trans-cadina-1(6),4-diene	0.11
zonarene	0.11
α cadinene	0.08
trans-cadina-1,4-diene	0.08
α cubebene	0.08
α ylangene	0.04
thujopsene	0.01
aromadendrene	0.01
trans- γ bisabolene	0.01

Phenols	0.89%	Sesquiterpenols	3%
eugenol	0.56	(Z,E)-farnesol	1.13
methyl chavicol	0.13	α cadinol	0.70
para cresol	0.07	τ muurolol	0.30
(E) anethole	0.06	τ cadinol	0.21
benzyl alcohol	0.03	α muurolol	0.11
methyl eugenol	0.02	junenol	0.10
phenylacetonitrile	0.01	1-epi-cubenol	0.10
4-vinylguaiacol	0.01	caryophyllenyl alcohol	0.08
		elemol	0.08
		guaiol	0.05
		germacrene D-4-ol	0.05
		viridiflorol	0.03
		(E) nerolidol	0.02
		1,10-di-epi-cubenol	0.02
		γ eudesmol	0.02

Client



Source



Ylang Ylang (*Cananga odorata*)
MA-59117

Sample

Ylang Ylang (*Cananga odorata*)
Batch #:..... MA-59117
Type:..... Essential Oil
CAS Number:... 8006-81-3
Nature's Gift

Client



Website

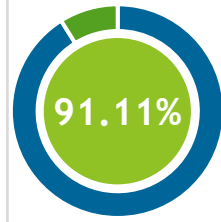
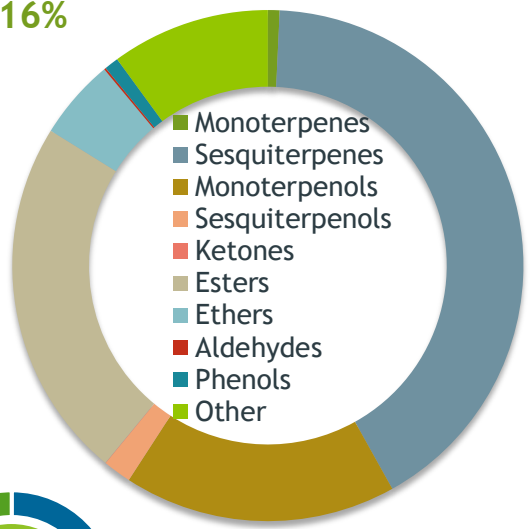


Primary

15.01% Germacrene D
14.34 Linalool
13.18% Geranyl acetate

Sesquiterpenes

41.16%



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 Ylang Ylang (*Cananga odorata*)

Internal Number: | EVS-4004



Essential Validation Services

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Gainesville, FL 32601

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

Alan Chastain

Monoterpenes	0.74%	0.74%
Sesquiterpenes	41.16%	41.16%
Monoterpenols	17.25%	17.25%
Sesquiterpenols	1.79%	1.79%
Ketones	0.02%	0.02%
Esters	22.88%	22.88%
Ethers	5.09%	5.09%
Aldehydes	0.12%	0.12%
Phenols	0.90%	0.90%
Other	10.04%	10.04%

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Client



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Ylang Ylang (*Cananga odorata*)

MA-59117

Total Percentage		91.11%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.75	0.01%	2-Hexanone	Aliphatic Ketone
2	3.81	0.01%	Prenol	Aliphatic Ester
3	4.62	0.01%	3.31 Butyl acetate	0.00
4	6.37	0.02%	Isoamyl acetate	Aliphatic Ester
5	6.44	0.02%	2-Methylbutyl acetate	Aliphatic Ester
6	6.58	0.16%	3-Methyl-3-buten-1-yl acetate	Aliphatic Ester
7	7.90	0.47%	Prenyl acetate	Aliphatic Ester
8	8.28	0.33%	alpha-Pinene	Monoterpene
9	8.90	0.01%	Camphene	Monoterpene
10	9.40	0.01%	Benzaldehyde	Simple Phenolic
11	10.01	0.12%	beta-Pinene	Monoterpene
12	10.43	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
13	10.60	0.17%	Myrcene	Monoterpene
14	11.29	0.11%	(Z)-3-Hexenyl acetate	Aliphatic Ester
15	11.62	0.09%	Hexyl acetate	Aliphatic Ester
16	11.87	4.76%	para-Cresyl methyl ether	Monoterpene Ether
17	12.26	0.05%	Limonene	Monoterpene
18	12.37	0.26%	1,8-Cineole	Monoterpene Ether
19	12.50	0.03%	Benzyl alcohol	Simple Phenolic
20	12.64	0.01%	(Z)-beta-Ocimene	Monoterpene
21	13.10	0.03%	(E)-beta-Ocimene	Monoterpene
22	14.16	0.01%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
23	14.42	0.07%	para-Cresol	Phenol
24	14.80	0.02%	Terpinolene	Monoterpene
25	15.19	3.31%	Methyl benzoate	Phenolic Ester
26	15.63	14.34%	Linalool	Monoterpenol
27	15.77	0.04%	Nonanal	Aliphatic Aldehyde
28	17.15	0.01%	Phenylacetonitrile	Simple Phenolic
29	18.37	3.21%	Benzyl acetate	Phenolic Ester
30	18.44	0.07%	para-Cresyl acetate	Monoterpene Ester
31	18.69	0.06%	Ethyl benzoate	Phenolic Ester
32	19.16	0.01%	Terpinen-4-ol	Monoterpenol
33	19.65	0.13%	Methyl salicylate	Phenolic Ester
34	19.84	0.18%	alpha-Terpineol	Monoterpenol
35	19.98	0.13%	Methyl chavicol	Phenylpropanoid

Client



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Ylang Ylang (Cananga odorata)
MA-59117

Number	RT	Area %	Compound Name	Chemical Family
36	21.247	0.03%	Nerol	Phenylpropanoid
37	21.83	0.02%	Neral	Monoterpene Aldehyde
38	22.47	2.60%	Geraniol	Monoterpeneol
39	23.18	0.06%	Geranial	Monoterpene Aldehyde
40	23.94	0.06%	(E)-Anethole	Phenylpropanoid
41	24.98	0.01%	4-Vinylguaiacol	Simple Phenolic
42	25.96	0.20%	delta-Elemene	Sesquiterpene
43	26.62	0.08%	alpha-Cubebene	Sesquiterpene
44	26.82	0.56%	Eugenol	Phenylpropanoid
45	27.22	0.03%	Neryl acetate	Monoterpene Ester
46	27.54	0.04%	alpha-Ylangene	Sesquiterpene
47	27.81	0.67%	alpha-Copaene	Sesquiterpene
48	28.13	13.18%	Geranyl acetate	Monoterpene Ester
49	28.36	0.17%	beta-Cubebene	Sesquiterpene
50	28.44	0.41%	beta-Elemene	Sesquiterpene
51	28.94	0.02%	Methyl eugenol	Phenylpropanoid
52	29.67	10.54%	beta-Caryophyllene	Sesquiterpene
53	29.84	0.01%	Thujopsene	Sesquiterpene
54	30.06	0.83%	beta-Copaene	Sesquiterpene
55	30.40	0.01%	Aromadendrene	Sesquiterpene
56	30.75	1.03%	(E)-Cinnamyl acetate	Phenylpropanoid Ester
57	30.92	0.40%	allo-Aromadendrene	Sesquiterpene
58	31.10	3.18%	alpha-Humulene	Sesquiterpene
59	31.36	0.18%	cis-Cadina-1(6),4-diene	Sesquiterpene
60	31.83	0.11%	trans-Cadina-1(6),4-diene	Sesquiterpene
61	32.23	15.01%	Germacrene D	Sesquiterpene
62	32.55	0.88%	Prenyl benzoate	Monoterpene Ester
63	32.65	0.17%	gamma-Muurolene	Sesquiterpene
64	32.75	0.39%	Bicyclogermacrene	Sesquiterpene
65	32.92	0.39%	alpha-Muurolene	Sesquiterpene
66	33.08	1.08%	(Z,E)-alpha-Farnesene	Sesquiterpene
67	33.29	5.26%	(E,E)-alpha-Farnesene	Sesquiterpene
68	33.46	0.36%	gamma-Cadinene	Sesquiterpene
69	33.58	0.08%	Eugenyl acetate	Phenylpropanoid Ester
70	33.72	1.39%	delta-Cadinene	Sesquiterpene
71	33.86	0.11%	Zonarene	Sesquiterpene

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72	34.07	0.01%	trans-gamma-Bisabolene	Sesquiterpene
73	34.23	0.08%	trans-Cadina-1,4-diene	Sesquiterpene
74	34.40	0.08%	alpha-Cadinene	Sesquiterpene
75	34.86	0.08%	Elemol	Sesquiterpenol
76	35.44	0.02%	(E)-Nerolidol	Sesquiterpenol
77	35.75	0.02%	(Z)-3-Hexenyl benzoate	Monoterpene Ester
78	35.90	0.05%	Germacrene D-4-ol	Sesquiterpenol
79	36.07	0.07%	Caryophyllene oxide	Sesquiterpene Ether
80	36.39	0.08%	Caryophyllenyl alcohol	Monoterpenol
81	36.55	0.03%	Viridiflorol	Sesquiterpenol
82	36.71	0.05%	Guaiol	Sesquiterpenol
83	37.39	0.02%	1,10-di-epi-Cubenol	Sesquiterpenol
84	37.58	0.10%	Junenol	Sesquiterpenol
85	37.86	0.10%	1-epi-Cubenol	Sesquiterpenol
86	38.01	0.02%	gamma-Eudesmol	Sesquiterpenol
87	38.40	0.21%	T-Cadinol	Sesquiterpenol
88	38.47	0.30%	T-Muurolol	Sesquiterpenol
89	38.57	0.11%	alpha-Muurolol	Sesquiterpenol
90	38.89	0.70%	alpha-Cadinol	Sesquiterpenol
91	39.58	0.02%	Elemol acetate	Sesquiterpene Ester
92	41.20	1.13%	(Z,E)-Farnesol	Sesquiterpenol
93	42.88	4.35%	Benzyl benzoate	Phenolic Ester
94	45.32	0.99%	(E,E)-Farnesyl acetate	Sesquiterpene Ester
95	46.32	1.37%	Benzyl salicylate	Phenolic Ester
96	49.43	0.08%	Geranyl benzoate	Diterpene Ester

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