

Ylang Ylang

Madagascar

Batch #MA-59152

Aldehydes 0.12%

geranial	0.05
benzaldehyde	0.02
nonanal	0.03
neral	0.02

Esters 23.72%

geranyl acetate	9.46
benzyl benzoate	5.48
(E,E) farnesyl acetate	2.09
methyl benzoate	1.72
benzyl salicylate	1.58
benzyl acetate	1.52
(E) cinnamyl acetate	0.58
prenyl benzoate	0.55
prenyl acetate	0.18
geranyl benzoate	0.14
eugenyl acetate	0.07
(Z)-3-hexenyl acetate	0.06
hexyl acetate	0.06
methyl salicylate	0.06
3-methyl-3-buten-1-yl acetate	0.05
ethyl benzoate	0.05
(Z)-3-hexenyl benzoate	0.02
neryl acetate	0.02
2-methylbutyl acetate	0.01
butyl acetate	0.01
isoamyl acetate	0.01

Monoterpenes 0.43%

α pinene	0.18
myrcene	0.10
β pinene	0.07
limonene	0.03
(E) β ocimene	0.01
terpinolene	0.01
camphene	0.01
(Z) β ocimene	0.01
sabinene	0.01

Monoterpenols 10.1%

linalool	8.36
geraniol	1.56
α terpineol	0.13
nerol	0.02
cis linalool oxide (5)	0.02
trans-linalool oxide (5)	0.01

Ethers 3.56%

para-cresyl methyl ether	3.11
1,8 cineole	0.25
caryophyllene oxide	0.16
humulene epoxide II	0.04

Ketones 0.01%

6-methyl-5-hepten-2-one	0.01
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Sesquiterpenes 51.78%

β caryophellene	13.25
germacrene d	12.32
(E,E) α farnesene	7.78
α humulene	3.56
δ cadinene	3.24
(Z,E) α farnesene	2.32
γ muurolene	1.73
α copaene	1.13
α muurolene	1.03
γ cadinene	0.98
β copaene	0.90
alloaromadendrene	0.53
β elemene	0.46
bicyclogermacrene	0.28
α cadinene	0.27
cis-muurola-4(14),5-diene	0.27
cis-cadina-1(6),4-diene	0.26
trans-cadina-1,4-diene	0.22
trans-muurola-3,5-diene	0.22
zonarene	0.2
α cubebene	0.19
α ylangene	0.19
δ elemene	0.14
β cubebene	0.11
α calacorene	0.05
aromadendrene	0.04
β selinene	0.04
β sesquiphellandrene	0.03
(E) γ bisabolene	0.02
thujopsene	0.01
longifolene	0.01



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Other	0.01%	Phenols	0.9%	Sesquiterpenols	7.25%
squalene	0.01	eugenol	0.56	α cadinol	2.02
		methyl chavicol	0.11	(Z,E)-farnesol	1.99
		methyl eugenol	0.06	τ muurolol	0.90
		para cresol	0.04	τ cadinol	0.60
		(E) anethole	0.04	α muurolol	0.39
		benzyl alcohol	0.03	junenol	0.33
		1-nitro-2-phenyl ethane	0.03	1,10-di-epi-cubenol	0.25
		4-vinylguaiaicol	0.02	caryophyllenyl alcohol	0.12
		veratrole	0.01	(E) nerolidol	0.11
				viridiflorol	0.10
				1-epi-cubenol	0.09
				elemol	0.08
				maaliol	0.08
				guaiol	0.06
				globulol	0.06
				γ eudesmol	0.03
				rosifoliol	0.02
				(E,E)-farnesol	0.02

Client



Source



Ylang Ylang (*Cananga odorata*)
MA-59152

Sample

Ylang Ylang (*Cananga odorata*)
Batch #:..... MA-59152
Type:..... Essential Oil
CAS Number:... 8006-81-3
Nature's Gift

Client



Website

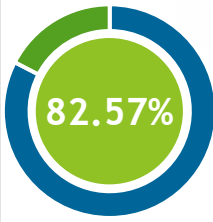
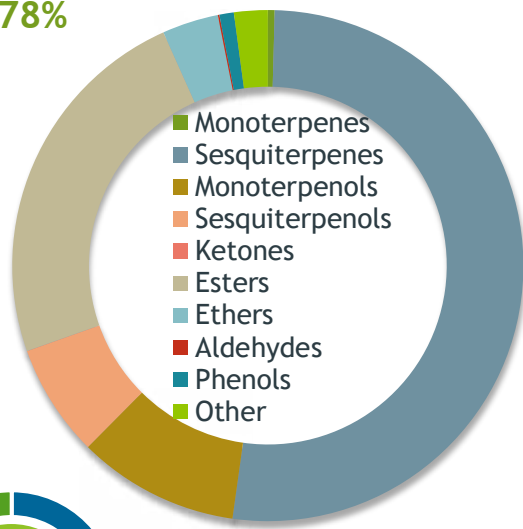


Primary

13.25% | beta-Caryophyllene
12.32 | Germacrene D
9.46% | Geranyl acetate

Sesquiterpenes

51.78%



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-4212



Essential Validation Services

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Gainesville, FL 32601

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

Monoterpenes	0.43%
Sesquiterpenes	51.78%
Monoterpenols	10.22%
Sesquiterpenols	7.13%
Ketones	0.01%
Esters	23.72%
Ethers	3.56%
Aldehydes	0.10%
Phenols	0.91%
Other	2.13%

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Client



Source

Ylang Ylang (*Cananga odorata*)

MA-59152

Total Percentage		82.57%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.60	0.01%	Butyl acetate	Aliphatic Ester
2	6.35	0.01%	Isoamyl acetate	Aliphatic Ester
3	6.42	0.01%	2-Methylbutyl acetate	Aliphatic Ester
4	6.56	0.05%	3-Methyl-3-buten-1-yl acetate	Aliphatic Ester
5	7.88	0.18%	Prenyl acetate	Aliphatic Ester
6	8.27	0.18%	alpha-Pinene	Monoterpene
7	8.87	0.01%	Camphene	Monoterpene
8	9.38	0.02%	Benzaldehyde	Simple Phenolic
9	9.84	0.01%	Sabinene	Monoterpene
10	10.00	0.07%	beta-Pinene	Monoterpene
11	10.39	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
12	10.58	0.10%	Myrcene	Monoterpene
13	11.26	0.06%	(Z)-3-Hexenyl acetate	Aliphatic Ester
14	11.59	0.06%	Hexyl acetate	Aliphatic Ester
15	11.85	3.11%	para-Cresyl methyl ether	Monoterpene Ether
16	12.24	0.03%	Limonene	Monoterpene
17	12.34	0.25%	1,8-Cineole	Monoterpene Ether
18	12.48	0.03%	Benzyl alcohol	Simple Phenolic
19	12.62	0.01%	(Z)-beta-Ocimene	Monoterpene
20	13.08	0.01%	(E)-beta-Ocimene	Monoterpene
21	14.12	0.02%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
22	14.41	0.04%	para-Cresol	Phenol
23	14.78	0.01%	Terpinolene	Monoterpene
24	14.86	0.01%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
25	15.16	1.72%	Methyl benzoate	Phenolic Ester
26	15.57	8.36%	Linalool	Monoterpenol
27	15.74	0.03%	Nonanal	Aliphatic Aldehyde
28	17.52	0.01%	Veratrole	0.00
29	18.32	1.52%	Benzyl acetate	Phenolic Ester
30	18.66	0.05%	Ethyl benzoate	Phenolic Ester
31	19.63	0.06%	Methyl salicylate	Phenolic Ester
32	19.81	0.13%	alpha-Terpineol	Monoterpenol
33	19.95	0.11%	Methyl chavicol	Phenylpropanoid
34	21.22	0.02%	Nerol	Monoterpenol
35	21.80	0.02%	Neral	Monoterpene Aldehyde

Client



Source



Ylang Ylang (*Cananga odorata*)
MA-59152

Number	RT	Area %	Compound Name	Chemical Family
36	22.433	1.56%	Geraniol	Monoterpene Aldehyde
37	23.15	0.05%	Geranial	Monoterpene Aldehyde
38	23.92	0.04%	(E)-Anethole	Phenylpropanoid
39	24.39	0.03%	1-Nitro-2-phenyl ethane	Phenol
40	24.97	0.02%	4-Vinylguaiacol	Simple Phenolic
41	25.93	0.14%	delta-Elemene	Sesquiterpene
42	26.59	0.19%	alpha-Cubebene	Sesquiterpene
43	26.80	0.56%	Eugenol	Phenylpropanoid
44	27.19	0.02%	Neryl acetate	Monoterpene Ester
45	27.51	0.19%	alpha-Ylangene	Sesquiterpene
46	27.79	1.13%	alpha-Copaene	Sesquiterpene
47	28.09	9.46%	Geranyl acetate	Monoterpene Ester
48	28.33	0.11%	beta-Cubebene	Sesquiterpene
49	28.42	0.46%	beta-Elemene	Sesquiterpene
50	28.93	0.06%	Methyl eugenol	Phenylpropanoid
51	29.65	13.25%	beta-Caryophyllene	Sesquiterpene
52	29.74	0.01%	Longifolene	Sesquiterpene
53	29.83	0.01%	Thujopsene	Sesquiterpene
54	30.04	0.90%	beta-Copaene	Sesquiterpene
55	30.37	0.04%	Aromadendrene	Sesquiterpene
56	30.73	0.58%	(E)-Cinnamyl acetate	Phenylpropanoid Ester
57	30.83	0.22%	trans-Muurolo-3,5-diene	Sesquiterpene
58	30.89	0.53%	allo-Aromadendrene	Sesquiterpene
59	31.08	3.56%	alpha-Humulene	Sesquiterpene
60	31.34	0.27%	cis-Muurolo-4(14),5-diene	Sesquiterpene
61	31.81	0.26%	trans-Cadina-1(6),4-diene	Sesquiterpene
62	31.96	1.73%	gamma-Muuroloene	Sesquiterpene
63	32.19	12.32%	Germacrene D	Sesquiterpene
64	32.43	0.04%	beta-Selinene	Sesquiterpene
65	32.54	0.55%	Prenyl benzoate	Monoterpene Ester
66	32.72	0.28%	Bicyclogermacrene	Sesquiterpene
67	32.90	1.03%	alpha-Muuroloene	Sesquiterpene
68	33.06	2.32%	(Z,E)-alpha-Farnesene	Sesquiterpene
69	33.28	7.78%	(E,E)-alpha-Farnesene	Sesquiterpene
70	33.45	0.98%	gamma-Cadinene	Sesquiterpene
71	33.55	0.07%	Eugenyl acetate	Phenylpropanoid Ester

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Client



Source



Ylang Ylang (*Cananga odorata*)
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72	33.71	3.24%	delta-Cadinene	Sesquiterpene
73	33.85	0.20%	Zonarene	Sesquiterpene
74	33.93	0.03%	beta-Sesquiphellandrene	Sesquiterpene
75	34.05	0.02%	trans-gamma-Bisabolene	Sesquiterpene
76	34.22	0.22%	trans-Cadina-1,4-diene	Sesquiterpene
77	34.38	0.27%	alpha-Cadinene	Sesquiterpene
78	34.52	0.05%	alpha-Calacorene	Sesquiterpene
79	34.84	0.08%	Elemol	Sesquiterpenol
80	35.42	0.11%	(E)-Nerolidol	Sesquiterpenol
81	35.72	0.02%	(Z)-3-Hexenyl benzoate	Monoterpene Ester
82	35.89	0.08%	Maaliol	Sesquiterpenol
83	36.04	0.16%	Caryophyllene oxide	Sesquiterpene Ether
84	36.21	0.06%	Globulol	Sesquiterpenol
85	36.36	0.12%	Caryophyllenyl alcohol	Monoterpenol
86	36.53	0.10%	Viridiflorol	Sesquiterpenol
87	36.69	0.06%	Guaiol	Sesquiterpenol
88	37.02	0.02%	Rosifoliol	Sesquiterpenol
89	37.10	0.04%	Humulene epoxide II	Sesquiterpene Ether
90	37.56	0.33%	Junenol	Sesquiterpenol
91	37.84	0.25%	1,10-di-epi-Cubenol	Sesquiterpenol
92	37.99	0.03%	gamma-Eudesmol	Sesquiterpenol
93	38.06	0.09%	1-epi-Cubenol	Sesquiterpenol
94	38.39	0.60%	T-Cadinol	Sesquiterpenol
95	38.46	0.90%	T-Muurolol	Sesquiterpenol
96	38.56	0.39%	alpha-Muurolol	Sesquiterpenol
97	38.88	2.02%	alpha-Cadinol	Sesquiterpenol
98	41.19	1.99%	(Z,E)-Farnesol	Sesquiterpenol
99	41.90	0.02%	(E,E)-Farnesol	Sesquiterpenol
100	42.87	5.48%	Benzyl benzoate	Phenolic Ester
101	45.30	2.09%	(E,E)-Farnesyl acetate	Sesquiterpene Ester
102	46.30	1.58%	Benzyl salicylate	Phenolic Ester
103	49.41	0.14%	Geranyl benzoate	Diterpene Ester
104	62.01	0.01%	Squalene	Triterpene

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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