

Neroli

Citrus aurantium var amara

Batch No. MO-59268

Morocco

Monoterpenes 32.58%

limonene	12.59
β pinene	8.65
(E) β ocimene	5.54
myrcene	1.97
sabinene	1.13
α pinene	0.81
(Z) β ocimene	0.71
terpinolene	0.48
γ terpinene	0.23
allo ocimene	0.13
α terpinene	0.12
para-cymene	0.11
camphene	0.06
α thujene	0.04
α phellandrene	0.01

Monoterpenols 41.59%

linalool	30.60
α terpineol	4.98
geraniol	3.79
nerol	1.41
terpinen-4-ol	0.42
cis-Linalool oxide (5) (furanoid)	0.18
trans-linalool oxide (5) (furanoid)	0.09
cis-dehydroxylinalool oxide	0.04
cis-para-menth-2-en-1-ol	0.02
trans-para-menth-2-en-1-ol	0.02
borneol	0.02
fenchol	0.01
trans-piperitol	0.01

Sesquiterpenes 1.31%

β caryophyllene	0.61
(E) β farnesene	0.12
germacrene D	0.11
bicyclogermacrene	0.11
α humulene	0.07
δ elemene	0.06
(E,E) α farnesene	0.05
(E,E) farnesol	0.05
β elemene	0.03
γ elemene	0.03
δ cadinene	0.03
viridiflorene	0.01
α muurolene	0.01
β sesquiphellandrene	0.01
Germacrene B	0.01

Esters 11.99%

geranyl acetate	4.64
linalyl acetate	3.92
neryl acetate	2.45
methyl anthranilate	0.46
α terpinyl acetate	0.20
(E,E)-farnesyl acetate	0.18
geranyl formate	0.06
bornyl acetate	0.04
hexyl acetate	0.02
octyl acetate	0.01
neryl formate	0.01

Ketones 0.18%

geranylacetone	0.10
6-methyl-5-hepten-2-one	0.03
camphenilone	0.03
limona ketone	0.01
carvone	0.01

Sesquiterpenols 9.02%

(E) Nerolidol	4.56
(Z,E) farnesol	4.38
spathulenol	0.05
α cadinol	0.02
viridiflorol	0.01

Aldehydes 0.13%

(E,Z) farnesal	0.04
benzaldehyde	0.03
neral	0.03
geranial	0.03

Ethers 0.05%

α pinene oxide	0.02
caryophyllene oxide	0.03

Other 0.66%

indole	0.20
phenylacetonitrile	0.17
2-phenylethanol	0.07
tetradecanol	0.07
heptadecane	0.05
cis-jasmone	0.04
nonadecane	0.04
(E) 2-hexenol	0.01
1-hexanol	0.01

Client



Source



Neroli (*Citrus aurantium amara*)
MA-59268

Sample

Neroli (*Citrus aurantium amara*)
Batch #:..... MA-59268
Type:..... Essential Oil
CAS Number:... 8016-38-4
Nature's Gift

Client



Website

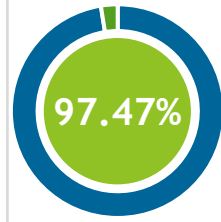
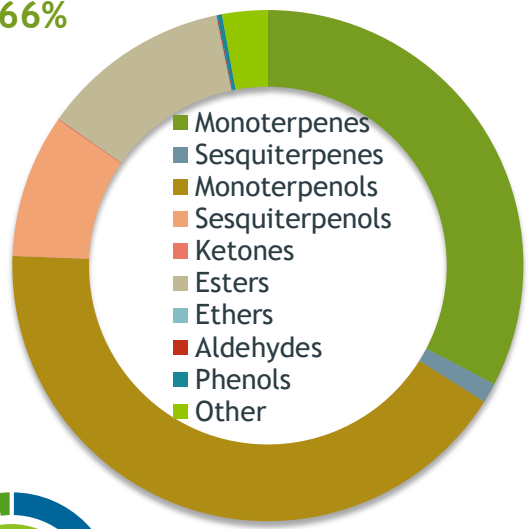


Primary

30.60% | Linalool
12.59% | Limonene
8.65% | beta-Pinene

Monoterpenols

41.66%



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 Neroli (*Citrus aurantium amara*)

Internal Number: | EVS-5161



Essential Validation Services

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

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

Alan Chastain

Monoterpenes	32.68%	32.68%
Sesquiterpenes	1.26%	1.26%
Monoterpenols	41.66%	41.66%
Sesquiterpenols	9.07%	9.07%
Ketones	0.07%	0.07%
Esters	11.99%	11.99%
Ethers	0.05%	0.05%
Aldehydes	0.06%	0.06%
Phenols	0.28%	0.28%
Other	2.88%	2.88%

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Client



Source

Neroli (*Citrus aurantium amara*)

MA-59268

Total Percentage		97.47%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.97	0.01%	(E)-2-Hexenol	Aliphatic Alcohol
2	6.08	0.01%	1-Hexanol	Aliphatic Alcohol
3	7.85	0.04%	alpha-Thujene	Monoterpene
4	8.09	0.81%	alpha-Pinene	Monoterpene
5	8.71	0.06%	Camphene	Monoterpene
6	9.28	0.03%	Benzaldehyde	Simple Phenolic
7	9.69	1.13%	Sabinene	Monoterpene
8	9.88	8.65%	beta-Pinene	Monoterpene
9	10.25	0.03%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
10	10.44	1.97%	Myrcene	Monoterpene
11	11.08	0.04%	cis-Dehydroxylinalool oxide	Monoterpenol
12	11.16	0.01%	alpha-Phellandrene	Monoterpene
13	11.44	0.02%	Hexyl acetate	Aliphatic Ester
14	11.54	0.12%	alpha-Terpinene	Monoterpene
15	11.93	0.11%	para-Cymene	Monoterpene
16	12.19	12.59%	Limonene	Monoterpene
17	12.49	0.71%	(Z)-beta-Ocimene	Monoterpene
18	13.00	5.54%	(E)-beta-Ocimene	Monoterpene
19	13.41	0.23%	gamma-Terpinene	Monoterpene
20	13.99	0.18%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
21	14.18	0.03%	Camphenilone	Monoterpene Ketone
22	14.62	0.48%	Terpinolene	Monoterpene
23	14.72	0.09%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
24	15.17	0.02%	alpha-Pinene oxide	Monoterpene Ether
25	15.80	30.60%	Linalool	Monoterpenol
26	16.07	0.07%	2-Phenylethanol	Simple Phenolic
27	16.34	0.01%	Fenchol	Monoterpenol
28	16.55	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
29	16.71	0.13%	Alloocimene	Monoterpene
30	16.95	0.01%	Limona ketone	Simple Phenolic
31	17.12	0.17%	Phenylacetone nitrile	Simple Phenolic
32	17.37	0.02%	trans-para-Menth-2-en-1-ol	Monoterpenol
33	18.66	0.02%	Borneol	Monoterpenol
34	19.06	0.42%	Terpinen-4-ol	Monoterpenol
35	19.90	4.98%	alpha-Terpineol	Monoterpenol

Client



Source

Neroli (*Citrus aurantium amara*)

MA-59268

Number	RT	Area %	Compound Name	Chemical Family
36	20.446	0.01%	trans-Piperitol	Monoterpenol
37	20.50	0.01%	Octyl acetate	Aliphatic Ester
38	21.21	1.41%	Nerol	Monoterpenol
39	21.70	0.03%	Neral	Monoterpene Aldehyde
40	21.91	0.01%	Carvone	Monoterpene Ketone
41	22.31	3.92%	Linalyl acetate	Monoterpene Ester
42	22.49	3.79%	Geraniol	Monoterpenol
43	23.06	0.03%	Geranial	Monoterpene Aldehyde
44	23.44	0.01%	Neryl formate	Monoterpene Ester
45	23.68	0.04%	Bornyl acetate	Monoterpene Ester
46	24.30	0.20%	Indole	Indole
47	24.40	0.06%	Geranyl formate	Monoterpene Ester
48	25.91	0.06%	delta-Elemene	Sesquiterpene
49	26.26	0.46%	Methyl anthranilate	Phenolic Ester
50	26.46	0.20%	alpha-Terpinyl acetate	Monoterpene Ester
51	27.10	2.45%	Neryl acetate	Monoterpene Ester
52	27.98	4.64%	Geranyl acetate	Monoterpene Ester
53	28.28	0.03%	beta-Elemene	Sesquiterpene
54	28.43	0.04%	cis-Jasmone	Jasmonate
55	29.44	0.61%	beta-Caryophyllene	Sesquiterpene
56	29.93	0.03%	gamma-Elemene	Sesquiterpene
57	30.77	0.10%	Geranylacetone	Monoterpene
58	30.92	0.07%	alpha-Humulene	Sesquiterpene
59	31.00	0.12%	(E)-beta-Farnesene	Sesquiterpene
60	31.99	0.11%	Germacrene D	Sesquiterpene
61	32.41	0.01%	Viridiflorene	Sesquiterpene
62	32.57	0.11%	Bicyclogermacrene	Sesquiterpene
63	32.77	0.01%	alpha-Murolene	Sesquiterpene
64	33.10	0.05%	(E,E)-alpha-Farnesene	Sesquiterpene
65	33.56	0.03%	delta-Cadinene	Sesquiterpene
66	33.79	0.01%	beta-Sesquiphellandrene	Sesquiterpene
67	35.03	0.01%	Germacrene B	Sesquiterpene
68	35.45	4.56%	(E)-Nerolidol	Sesquiterpenol
69	35.85	0.05%	Spathulenol	Sesquiterpenol
70	35.94	0.03%	Caryophyllene oxide	Sesquiterpene Ether
71	36.51	0.01%	Viridiflorol	Sesquiterpenol

