



## Lavender Population

Lavandula angustifolia

Batch No. #FR-59304  
France

### Monoterpenes 2.73%

myrcene	0.51
(Z)- $\beta$ ocimene	0.43
(E) $\beta$ ocimene	0.34
para cymene	0.32
limonene	0.23
camphene	0.22
$\alpha$ pinene	0.16
$\beta$ pinene	0.11
alloocimene	0.09
o-cymene	0.09
$\delta$ 3-carene	0.06
$\alpha$ thujene	0.05
(Z) epoxy-ocimene	0.04
sabinene	0.04
tricyclene	0.03
para cymenene	0.01

### Monoterpenols 33.58%

linalool	26.49
terpinene-4-ol	2.65
borneol	1.51
$\alpha$ terpineol	1.06
lavandulol	0.78
cis-linalol oxide (5)(furanoid)	0.44
trans-linalol oxide (5)(furanoid)	0.37
para-cymen-8-ol	0.10
cis-linalol oxide (6)(pyranoid)	0.06
para-cymen-7-ol	0.04
trans-carveol	0.03
trans-pinocarveol	0.03
(Z) para-menth-2-en-1-ol	0.02

### Ethers 4.02%

caryophyllene oxide	2.59
1,8 cineole	1.17
(E) myroxide	0.07
humulene epoxide II	0.07
methyl hexyl ether	0.05
$\alpha$ pinene oxide	0.04
dendrolasin	0.02
nerol oxide	0.01

### Esters 49.14%

linalyl acetate	40.78
lavandulyl acetate	4.02
1-octenyl-3 acetate	1.29
geranyl acetate	0.81
neryl acetate	0.44
iso-dihydro carveol acetate	0.38
hexyl acetate	0.35
isobornyl formate	0.22
bornyl acetate	0.20
octan-3-yl acetate	0.10
nejo-isopulegyl acetate	0.08
butyl-butyrate	0.07
hexyl isobutyrate	0.07
(ZZ) octenol acetate	0.07
hexyl 2-methyl butanoate	0.04
citronellyl butyrate	0.04
(Z) 3-hexenyl butyrate	0.03
heptyl acetate	0.03
hexyl propanoate	0.03
hexyl tiglate	0.03
butyl acetate	0.02
octyl acetate	0.02
geranyl formate	0.01
lavandulyl 2-methylbutyrate	0.01

### Ketones 1.5%

octan-3-one	0.6
camphor	0.56
cryptone	0.13
carvone	0.04
4-methylene isophorone	0.04
nopinone	0.03
camphenilone	0.03
pinocamphone	0.03
verbene	0.03
2 hexanone	0.01

### Sesquiterpenes 4.77%

isocaryophyllene	2.81
(E) $\beta$ farnesene	1.04
$\gamma$ cadinene	0.22
(E) $\alpha$ bergamotene	0.19
$\alpha$ humulene	0.08
$\beta$ caryophyllene	0.08
Germacrene B	0.07
(Z) $\alpha$ bergamotene	0.06
$\beta$ bisabolene	0.06
zingiberene	0.05
epi $\beta$ santalene	0.03
germacrene D	0.03
$\beta$ cedrene	0.03
sesquithujene	0.02

### Sesquiterpenols 0.36%

$\tau$ muurolol	0.15
(Z) sesquisabinene hydrate	0.15
1,10-di-epi-cubenol	0.02
(E) nerolidol	0.02
spathulenol	0.02

### Aldehydes 0.14%

cuminal	0.07
geranial	0.04
3-methyl-2-butenal	0.03

### Other 0.51%

1 octen-3-ol	0.28
3-octanol	0.12
1 hexanol	0.04
furfuryl alcohol	0.04
(Z) hex-3-en-1-ol	0.03
coumarin	0.03
1-octanol	0.01

Client



Source



Lavender, Population (*Lavandula angustifolia*)  
FR-59304

Sample

Lavender, Population (*Lavandula*)  
Batch #:..... FR-59304  
Type:..... Essential Oil  
CAS Number:... 8000-28-0  
**Nature's Gift**

Client



Website

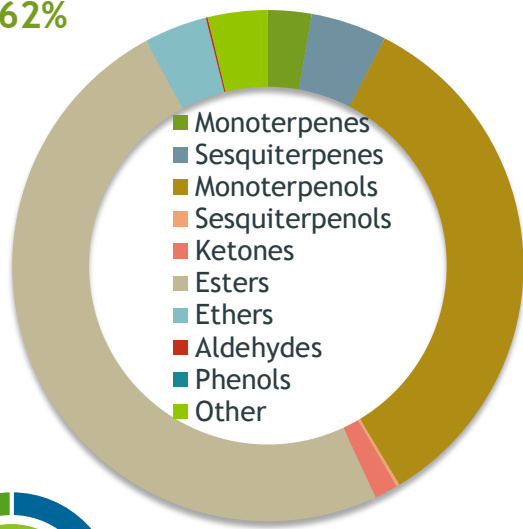


Primary

**40.78%** | Linalyl acetate  
**26.49%** | Linalool  
**4.02%** | Lavandulyl acetate

**Esters**

48.62%



**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 Lavender, Population (*Lavandula angustifolia*)

Internal Number: | EVS-5469



**Essential Validation Services**

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

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

*Alan Christen*

Monoterpenes	2.73%
Sesquiterpenes	4.77%
Monoterpenols	33.54%
Sesquiterpenols	0.21%
Ketones	1.46%
Esters	48.62%
Ethers	3.95%
Aldehydes	0.11%
Phenols	0.00%
Other	3.76%

ESSENTIAL VALIDATION SERVICES | 747 SW 2ND AVE GAINESVILLE, FLORIDA 32601 | 317-361-5044

Client



Source



Lavender, Population (*Lavandula angustifolia*)  
FR-59304

Total Percentage		96.79%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.77	0.03%	2.97 Methyl-2-butenal<3->	0.00
2	3.84	0.01%	2-Hexanone	Aliphatic Ketone
3	4.37	0.02%	Butyl acetate	Aliphatic Ester
4	4.65	0.05%	Methyl hexyl ether	Aliphatic Ether
5	5.45	0.03%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
6	5.60	0.04%	Furfuryl alcohol	Aliphatic Alcohol
7	5.86	0.04%	1-Hexanol	Aliphatic Alcohol
8	7.52	0.03%	Tricyclene	Monoterpene
9	7.68	0.05%	alpha-Thujene	Monoterpene
10	7.92	0.16%	alpha-Pinene	Monoterpene
11	8.52	0.22%	Camphene	Monoterpene
12	9.46	0.04%	Sabinene	Monoterpene
13	9.62	0.11%	beta-Pinene	Monoterpene
14	9.85	0.28%	1-Octen-3-ol	Aliphatic Alcohol
15	10.03	0.60%	Octan-3-one	Aliphatic Ketone
16	10.20	0.51%	Myrcene	Monoterpene
17	10.50	0.07%	Butyl butyrate	Aliphatic Ester
18	10.56	0.12%	3-Octanol	Aliphatic Alcohol
19	10.94	0.06%	delta-3-Carene	Monoterpene
20	11.20	0.35%	Hexyl acetate	Aliphatic Ester
21	11.43	0.09%	o-Cymene	Monoterpene
22	11.64	0.32%	para-Cymene	Monoterpene
23	11.84	0.23%	Limonene	Monoterpene
24	11.93	1.17%	1,8-Cineole	Monoterpene Ether
25	12.22	0.43%	(Z)-beta-Ocimene	Monoterpene
26	12.68	0.34%	(E)-beta-Ocimene	Monoterpene
27	13.69	0.44%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
28	13.85	0.01%	1-Octanol	Aliphatic Alcohol
29	14.19	0.03%	Camphenilone	Monoterpene Ketone
30	14.42	0.37%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
31	14.58	0.01%	para-Cymenene	Monoterpene
32	14.90	0.04%	alpha-Pinene oxide	Monoterpene Ether
33	15.29	26.49%	Linalool	Monoterpenol
34	15.41	0.03%	Hexyl propanoate	Monoterpene Ester
35	15.54	1.29%	1-Octenyl-3 acetate	Monoterpene Ester

Client



Source



Lavender, Population (*Lavandula angustifolia*)  
FR-59304

Number	RT	Area %	Compound Name	Chemical Family
36	15.685	0.03%	Heptyl acetate	Monoterpene Ester
37	16.07	0.10%	Octan-3-yl acetate	Aliphatic Ester
38	16.14	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
39	16.39	0.09%	Alloocimene	Monoterpene
40	16.47	0.04%	(Z)-Epoxy-ocimene	Monoterpene
41	16.69	0.03%	Nopinone	Monoterpene Ketone
42	16.83	0.03%	trans-Pinocarveol	Monoterpenol
43	16.90	0.07%	13.23 Myroxide<E->	0.00
44	17.07	0.56%	Camphor	Monoterpene Ketone
45	17.32	0.07%	Hexyl isobutyrate	Monoterpene Ester
46	17.45	0.01%	Nerol oxide	Monoterpene Ether
47	18.05	0.78%	Lavandulol	Monoterpenol
48	18.29	1.51%	Borneol	Monoterpenol
49	18.41	0.03%	Pinocamphone	Monoterpene Ketone
50	18.52	0.06%	cis-Linalool oxide (6) (pyranoid)	Monoterpenol
51	18.71	2.65%	Terpinen-4-ol	Monoterpenol
52	18.92	0.13%	Cryptone	Monoterpene Ketone
53	19.05	0.10%	para-Cymen-8-ol	Monoterpenol
54	19.27	0.03%	(Z)-3-Hexenyl butyrate	Aliphatic Ester
55	19.39	1.06%	alpha-Terpineol	Monoterpenol
56	19.70	0.07%	15.67 Octenol acetate<2Z->	0.00
57	19.86	0.03%	Verbenone	Monoterpene Ketone
58	20.00	0.04%	16.48 Isophorone<4-methylene->	0.00
59	20.22	0.02%	Octyl acetate	Aliphatic Ester
60	20.53	0.03%	trans-Carveol	Monoterpenol
61	20.82	0.22%	17.36 Isobornyl formate	0.00
62	21.35	0.04%	Hexyl 2-methyl butanoate	Monoterpene Ester
63	21.47	0.07%	Cuminal	Monoterpene Aldehyde
64	21.57	0.04%	Carvone	Monoterpene Ketone
65	22.16	40.78%	Linalyl acetate	Monoterpene Ester
66	22.74	0.04%	Geranial	Monoterpene Aldehyde
67	22.98	0.08%	neo-Isopulegyl acetate	Monoterpene Ester
68	23.39	0.20%	Bornyl acetate	Monoterpene Ester
69	23.54	4.02%	Lavandulyl acetate	Monoterpene Ester
70	23.78	0.04%	19.74 Cymen-7-ol<para->	0.00
71	24.10	0.01%	Geranyl formate	Monoterpene Ester

ESSENTIAL VALIDATION SERVICES | 74 / SW ZIMMERMAN AVE GAINESVILLE, FLORIDA 32601 | 352-350-5044

