

## Lavender (Bulgarian) Lavandula angustifolia

Batch No. #BU-59102  
 Bulgaria

### Monoterpenes 11.84%

cis- $\beta$ -ocimene	4.79
trans- $\beta$ ocimene	3.21
alloocimene	0.91
myrcene	0.79
limonene	0.57
$\alpha$ pinene	0.27
$\gamma$ terpinene	0.20
para cymene	0.20
camphene	0.16
$\Delta$ 3 carene	0.14
$\alpha$ thujene	0.13
pentyl cyclohexa-1,3-diene	0.11
terpinolene	0.08
$\alpha$ phellandrene	0.06
o-cymene	0.06
$\alpha$ terpinene	0.05
$\beta$ pinene	0.05
sabinene	0.04
tricyclene	0.02

### Monoterpenols 34.05%

linalol	25.3
terpinen-4-ol	5.24
$\alpha$ terpineol	1.39
lavandulol	0.91
borneol	0.77
linalool cis-oxide	0.22
trans-linaloloxide	0.07
para-cymen-8-ol	0.07
hotrienol	0.05
cumin alcohol	0.03

### Aldehydes 0.07%

cuminal	0.07
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### Esters 39.64%

linalyl acetate	30.9
lavandulyl acetate	4.44
1-octenyl-3 acetate	1.41
Hexyl acetate	0.81
neryl acetate	0.61
geranyl acetate	0.35
bornyl acetate	0.18
octan-3-yl acetate	0.18
butyl butyrate	0.18
hexyl isobutyrate	0.11
nerol	0.11
hexyl propanoate	0.06
hexyl tiglate	0.05
hexyl 2-methyl butanoate	0.05
bornyl formate	0.05
butyl acetate	0.04
heptyl acetate	0.03
cis-para-menth-2-en-1-ol	0.03
isopulegyl acetate	0.02
octyl acetate	0.02
isobutyl butyrate	0.01

### Ethers 1.07%

1,8 cineole (also known as an Oxide)	0.94
methyl hexyl ether	0.13

### Ketones 1.66%

3-octanone	1.22
camphor	0.26
cryptone	0.16
carvone	0.02

### Sesquiterpenes 9.51%

(E) $\beta$ farnesene	4.67
$\beta$ caryophyllene	4.35
$\alpha$ -trans-bergamotene	0.17
$\gamma$ cadinene	0.12
cis- $\alpha$ bergamotene	0.06
$\beta$ bisabolene	0.04
7-epi-sesquithujene	0.03
epi- $\beta$ -santalene	0.02
$\beta$ copaene	0.02
(Z) $\beta$ farnesene	0.01
(E,E) $\alpha$ farnesene	0.01
$\beta$ sesquiphellandrene	0.01

### Sesquiterpenols 0.08%

$\tau$ cadinol	0.08
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### Other 0.5%

3-octanol	0.22
1-octen-3-ol	0.19
1-hexanol	0.05
1 octanol	0.02
toluene	0.01
cis-hex-3-en-1-ol	0.01

Client



Source



Lavender (*Lavandula angustifolia*)  
BU-59102

Sample

Lavender (*Lavandula angustifolia*)  
Batch #:..... BU-59102  
Type:..... Essential Oil  
CAS Number:... 8000-28-0  
Nature's Gift

Client



Website

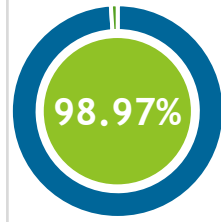
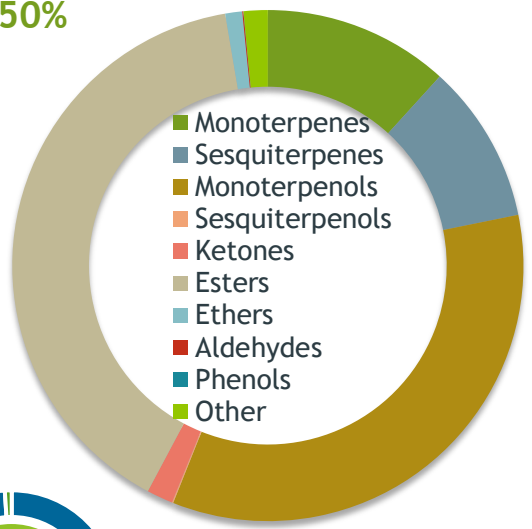


Primary

**30.90%** | Linalyl acetate  
**25.30** | Linalool  
**5.24%** | Terpinen-4-ol

Esters

39.50%



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 (*Lavandula angustifolia*)

Internal Number: | EVS-3919



Essential Validation Services

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

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

*Alan Christen*

Monoterpenes	11.73%	11.73%
Sesquiterpenes	10.06	10.06%
Monoterpenols	34.19%	34.19%
Sesquiterpenols		0.08%
Ketones		1.66%
Esters	39.50%	39.50
Ethers		1.07%
Aldehydes		0.07%
Phenols		0.01%
Other		1.52%

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Client



Source

Lavender (*Lavandula angustifolia*)

BU-59102

Total Percentage		98.97%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.73	0.01%	Toluene	Simple Phenolic
2	4.78	0.04%	Butyl acetate	Aliphatic Ester
3	5.08	0.13%	Methyl hexyl ether	Aliphatic Ether
4	5.94	0.01%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
5	6.37	0.05%	1-Hexanol	Aliphatic Alcohol
6	8.10	0.02%	Tricyclene	Monoterpene
7	8.27	0.13%	alpha-Thujene	Monoterpene
8	8.52	0.27%	alpha-Pinene	Monoterpene
9	9.15	0.16%	Camphene	Monoterpene
10	9.37	0.01%	Isobutyl butyrate	Aliphatic Ester
11	10.11	0.04%	Sabinene	Monoterpene
12	10.28	0.05%	beta-Pinene	Monoterpene
13	10.51	0.19%	1-Octen-3-ol	Aliphatic Alcohol
14	10.70	1.22%	Octan-3-one	Aliphatic Ketone
15	10.86	0.79%	Myrcene	Monoterpene
16	11.18	0.18%	Butyl butyrate	Aliphatic Ester
17	11.23	0.22%	3-Octanol	Aliphatic Alcohol
18	11.52	0.06%	alpha-Phellandrene	Monoterpene
19	11.63	0.14%	delta-3-Carene	Monoterpene
20	11.89	0.81%	Hexyl acetate	Aliphatic Ester
21	12.00	0.05%	alpha-Terpinene	Monoterpene
22	12.13	0.06%	o-Cymene	Monoterpene
23	12.33	0.20%	para-Cymene	Monoterpene
24	12.55	0.57%	Limonene	Monoterpene
25	12.67	0.94%	1,8-Cineole	Monoterpene Ether
26	12.93	4.79%	(Z)-beta-Ocimene	Monoterpene
27	13.39	3.21%	(E)-beta-Ocimene	Monoterpene
28	13.87	0.20%	gamma-Terpinene	Monoterpene
29	14.46	0.22%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
30	14.57	0.02%	1-Octanol	Aliphatic Alcohol
31	15.11	0.08%	Terpinolene	Monoterpene
32	15.21	0.07%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
33	15.94	25.30%	Linalool	Monoterpenol
34	16.03	0.05%	Hotrienol	Monoterpenol
35	16.13	0.06%	Hexyl propanoate	Monoterpene Ester



Lavender (*Lavandula angustifolia*)  
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Number	RT	Area %	Compound Name	Chemical Family
36	16.267	1.41%	1-Octenyl-3 acetate	Monoterpene Ester
37	16.44	0.03%	Heptyl acetate	Monoterpene Ester
38	16.82	0.18%	Octan-3-yl acetate	Aliphatic Ester
39	16.91	0.03%	cis-para-Menth-2-en-1-ol	Monoterpenol
40	17.14	0.91%	Alloocimene	Monoterpene
41	17.88	0.26%	Camphor	Monoterpene Ketone
42	18.09	0.11%	Hexyl isobutyrate	Monoterpene Ester
43	18.81	0.91%	Lavandulol	Monoterpenol
44	19.07	0.77%	Borneol	Monoterpenol
45	19.32	0.11%	13.91 Pentyl cyclohexa-1,3-diene	0.00
46	19.50	5.24%	Terpinen-4-ol	Monoterpenol
47	19.75	0.16%	Cryptone	Monoterpene Ketone
48	19.81	0.07%	para-Cymen-8-ol	Monoterpenol
49	20.17	1.39%	alpha-Terpineol	Monoterpenol
50	21.01	0.02%	Octyl acetate	Aliphatic Ester
51	21.60	0.11%	Nerol	Monoterpenol
52	21.65	0.05%	Bornyl formate	Monoterpene Ester
53	22.14	0.05%	Hexyl 2-methyl butanoate	Monoterpene Ester
54	22.27	0.07%	Cuminal	Monoterpene Aldehyde
55	22.38	0.02%	Carvone	Monoterpene Ketone
56	22.86	30.90%	Linalyl acetate	Monoterpene Ester
57	23.79	0.02%	Isopulegyl acetate	Monoterpene Ester
58	24.22	0.18%	Bornyl acetate	Monoterpene Ester
59	24.32	4.44%	Lavandulyl acetate	Monoterpene Ester
60	24.55	0.03%	Cumin alcohol	Monoterpenol
61	26.29	0.05%	Hexyl tiglate	Monoterpene Ester
62	27.55	0.35%	Geranyl acetate	Monoterpene Ester
63	28.40	0.61%	Neryl acetate	Monoterpene Ester
64	29.38	0.03%	7-epi-Sesquithujene	Sesquiterpene
65	29.79	0.06%	cis-alpha-Bergamotene	Sesquiterpene
66	29.97	4.35%	beta-Caryophyllene	Sesquiterpene
67	30.41	0.02%	beta-Copaene	Sesquiterpene
68	30.62	0.17%	trans-alpha-Bergamotene	Sesquiterpene
69	30.92	0.01%	(Z)-beta-Farnesene	Sesquiterpene
70	31.16	0.02%	epi-beta-Santalene	Sesquiterpene
71	31.51	4.67%	(E)-beta-Farnesene	Sesquiterpene

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72	32.49	0.55%	Germacrene D	Sesquiterpene
73	33.58	0.01%	(E,E)-alpha-Farnesene	Sesquiterpene
74	33.67	0.04%	beta-Bisabolene	Sesquiterpene
75	33.80	0.12%	gamma-Cadinene	Sesquiterpene
76	34.27	0.01%	beta-Sesquiphellandrene	Sesquiterpene
77	38.75	0.08%	T-Cadinol	Sesquiterpenol

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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