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Balancing Body, Mind and Spirit with Pure Essential Oils
Since 1995
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Valerian

Valeriana officinalis

Nepal

Batch #NP-59226

Sesquiterpenes 55.82%

β chamigrene	11.92
seychellene	9.42
γ patchoilene	7.50
α patchoulene	5.37
β Gurjunene	3.88
α guaiene	3.79
7-epi-α-selinene	3.13
β patchoulene	2.75
α selinene	1.83
γ gurjunene	1.71
β elemene	0.85
β selinene	0.75
viridiflorene	0.56
β caryophyllene	0.51
α gurjunene	0.41
α santalene	0.37
γ selinene	0.36
nootkatene	0.27
longifolene	0.12
α copaene	0.08
γ muurolene	0.07
6,9-guaiaadiene	0.07
germacrene B	0.04
δ elemene	0.03
β maaliene	0.02
(Z) α bergamotene	0.01

Sesquiterpenols 15.22%

maaliol	6.70
patchouli alcohol	5.98
pogostol	0.91
rosifoliol	0.53
spathulenol	0.35
ledol	0.27
palustrol	0.14
γ eudesmol	0.13
globulol	0.10
β eudesmol	0.06
elemol	0.03
α bisabolol	0.02

Monoterpenes 2.3%

α pinene	0.41
limonene	0.29
β pinene	0.13
para cymene	0.07
γ terpinene	0.05
myrcene	0.02
camphene	1.33

Monoterpenols 0.37%

linalool	0.25
borneol	0.10
α terpineol	0.02

Esters 3.88%

ethyl isovalerate	2.38
bornyl acetate	1.49
linalyl acetate	0.01

Ethers 1.14%

kessane	1.06
methyl thymol	0.05
1,8 cineole	0.03

Ketones 0.2%

valerenone	0.19
carvone	0.01

Other 9.54%

3-methylbutanoic acid	8.58
cembrene A	0.50
other	0.46

Client



Source



Valerian (Valeriana officinalis)
NP-59226

Valerian (Valeriana officinalis)

Batch #: NP-59226

Type: Essential Oil

CAS Number: ... 8008-88-6

Nature's Gift

Sample



Website



Primary

11.92%

beta-Chamigrene

9.42%

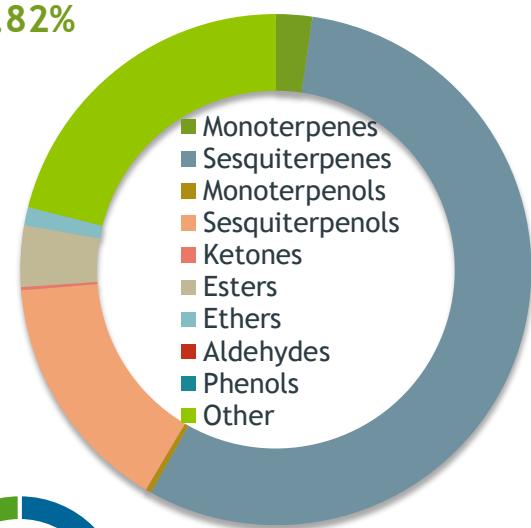
Seychellene

8.58%

3-Methylbutanoic acid

Sesquiterpenes

55.82%



88.01%

Percentage Identified

Result

APPROVED

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Valerian (Valeriana officinalis)

Internal Number: | EVS-4850



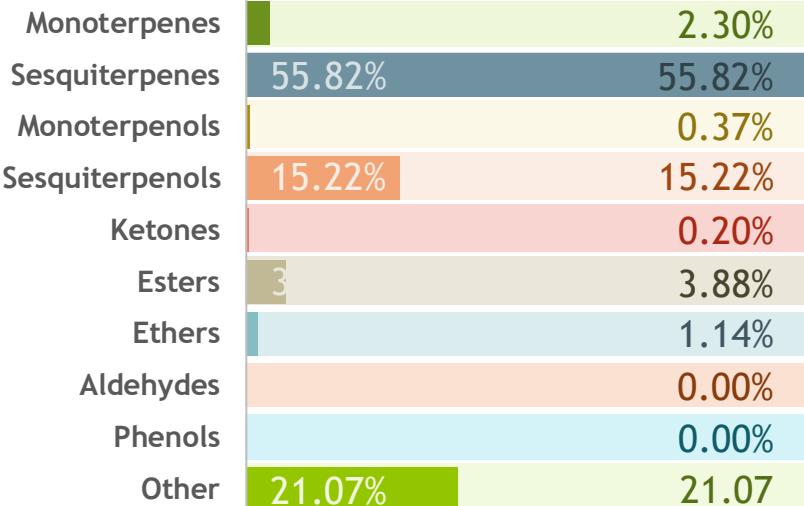
**Essential Validation
Services**

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

317.361.5044 |

<https://essentialvalidationservices.com/>

[Signature]



- 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

Client



Source

*Valerian (Valeriana officinalis)*

NP-59226

Total Percentage	88.01%			
Number	RT	Area %	Compound Name	Chemical Family
1	5.57	2.38%	Ethyl isovalerate	Aliphatic Ester
2	6.10	8.58%	3-Methylbutanoic acid	Aliphatic Acid
3	8.13	0.41%	alpha-Pinene	Monoterpene
4	8.74	1.33%	Camphene	Monoterpene
5	9.85	0.13%	beta-Pinene	Monoterpene
6	10.43	0.02%	Myrcene	Monoterpene
7	11.87	0.07%	para-Cymene	Monoterpene
8	12.08	0.29%	Limonene	Monoterpene
9	12.20	0.03%	1,8-Cineole	Monoterpene Ether
10	13.39	0.05%	gamma-Terpinene	Monoterpene
11	15.33	0.25%	Linalool	Monoterpenol
12	18.51	0.10%	Borneol	Monoterpenol
13	19.62	0.02%	alpha-Terpineol	Monoterpenol
14	21.03	0.05%	Methyl thymol	Monoterpene Ether
15	21.81	0.01%	Carvone	Monoterpene Ketone
16	22.22	0.01%	Linalyl acetate	Monoterpene Ester
17	23.64	1.49%	Bornyl acetate	Monoterpene Ester
18	25.73	0.03%	delta-Elemene	Sesquiterpene
19	27.58	0.08%	alpha-Copaene	Sesquiterpene
20	27.89	2.75%	beta-Patchoulene	Sesquiterpene
21	28.20	0.85%	beta-Elemene	Sesquiterpene
22	28.56	0.02%	beta-Maaliene	Sesquiterpene
23	29.06	0.41%	alpha-Gurjunene	Sesquiterpene
24	29.23	0.01%	cis-alpha-Bergamotene	Sesquiterpene
25	29.37	0.51%	beta-Caryophyllene	Sesquiterpene
26	29.44	0.37%	alpha-Santalene	Sesquiterpene
27	29.70	0.12%	Longifolene	Sesquiterpene
28	29.83	3.88%	beta-Gurjunene	Sesquiterpene
29	30.11	3.79%	alpha-Guaiene	Sesquiterpene
30	30.34	0.07%	6,9-Guaiadiene	Sesquiterpene
31	30.51	9.42%	Seychellene	Sesquiterpene
32	30.87	7.50%	gamma-Patchoulene	Sesquiterpene
33	31.04	5.37%	alpha-Patchoulene	Sesquiterpene
34	31.64	0.36%	gamma-Selinene	Sesquiterpene
35	32.06	0.07%	gamma-Murolene	Sesquiterpene

Client



Source



Valerian (*Valeriana officinalis*)
NP-59226

Number	RT	Area %	Compound Name	Chemical Family
36	32.212	0.75%	beta-Selinene	Sesquiterpene
37	32.37	0.56%	Viridiflorene	Sesquiterpene
38	32.52	1.83%	alpha-Selinene	Sesquiterpene
39	32.66	1.71%	gamma-Gurjunene	Sesquiterpene
40	32.82	11.92%	beta-Chamigrene	Sesquiterpene
41	33.43	3.13%	7-epi-alpha-Selinene	Sesquiterpene
42	33.79	1.06%	Kessane	Sesquiterpene Ether
43	33.90	0.27%	Nootkatene	Sesquiterpene
44	34.64	0.03%	Elemol	Sesquiterpenol
45	35.11	0.04%	Germacrene B	Sesquiterpene
46	35.36	6.70%	Maaliol	Sesquiterpenol
47	35.51	0.14%	Palustrol	Sesquiterpenol
48	35.65	0.35%	Spathulenol	Sesquiterpenol
49	36.31	0.10%	Globulol	Sesquiterpenol
50	36.70	0.27%	Ledol	Sesquiterpenol
51	36.80	0.53%	Rosifoliol	Sesquiterpenol
52	37.80	0.13%	gamma-Eudesmol	Sesquiterpenol
53	38.56	0.06%	beta-Eudesmol	Sesquiterpenol
54	38.70	0.91%	Pogostol	Sesquiterpenol
55	39.06	5.98%	Patchouli alcohol	Sesquiterpenol
56	39.25	0.19%	Valerenone	Sesquiterpene Ketone
57	39.81	0.02%	alpha-Bisabolol	Sesquiterpenol
58	40.71	0.46%	UK Valerian	
59	48.84	0.50%	Cembrene A	Diterpene

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