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Healing Body, Mind and Spirit with Pure Essential Oils

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Vetiver

Vetiveria zizanioides

Madagascar

Batch #MA-58892

Sesquiterpenes	29.71%
β Vetivenene	4.48
α Vetispirine	2.66
sativene	2.56
γ Vetivenene	2.51
β Vetivenene isomer I	2.13
δ selinene	1.65
α Amorphene	1.58
β Vetivenene isomer II	1.42
α Ylangene	1.20
β elemene	1.19
prezizaene	1.03
β bisabolene	0.94
khusimene	0.78
aromadendrene	0.73
δ cadinene	0.59
α Acoradiene	0.48
γ cadinene	0.39
γ calacorene	0.39
γ Amorphene	0.38
nootkatene	0.35
α guaiene	0.27
α Calacorene	0.23
β caryophyllene	0.23
β Gurjunene	0.21
β funebrene	0.21
thujopsadiene	0.19
α copaene	0.17
nigritene	0.14
sesquithujene	0.13
Acora-3,7(14)-diene	0.12
2-Prezizaene	0.10
β cedrene	0.10
diepi-α-cedrene	0.09
12-norisoziza-5-ene	0.08

Sesquiterpenols	27.98%
khusimol	10.76
α-cadinol	3.75
vetiselinenol	3.25
Cyclocopacampha-12-ol (epimer B)	1.9
khusiol	1.54
junenol	1.52
Cyclocopacampha-12-ol (epimer A)	1.51
7-epi-α-eudesmol	0.88
α-muurolol	0.86
Elemol	0.64
β eudesmol	0.52
τ-cadinol	0.49
isovalencenol	0.36

Ketones	14.39%
β Vetivone	4.69
α Vetivone	4.42
khusimone	2.57
junipercamphor	1.25
epi-zizanone	0.81
Nootkatone	0.65

Aldehydes	2.98%
(E)-isovalencenal	2.02
zizanal	0.96

Phenols	0.03%
4-vinylguaiacol	0.03

Other	1.74%
zizanoicacid	1.73
furfural	0.01

Raw Material: Roots

Production Method: Hydro steam distillation

Date of Analysis: 3/21/2019

Client



Source



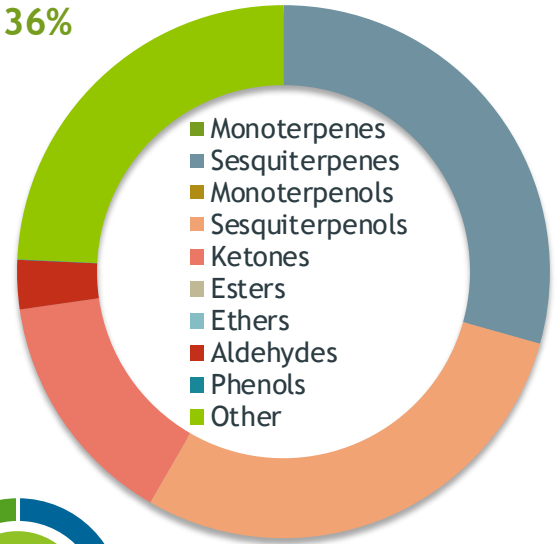
Vetiver (*Vetiveria zizanioides*)
MA-58892

Sample

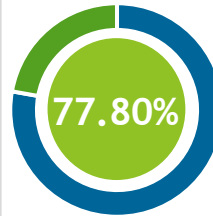
Vetiver (*Vetiveria zizanioides*)
Batch #:..... MA-58892
Type:..... Essential Oil
CAS Number:... 84238-29-9
Nature's Gift

Sesquiterpenes

29.36%



Percentage Identified



Client



Website



Primary

10.76% | Khusimol
4.69% | beta-Vetivone
4.48% | beta-Vetivenene

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Vetiver (*Vetiveria zizanioides*)

Internal Number: | EVS-2746



Essential Validation Services

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

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Adam Christen

Monoterpenes	0.00%
Sesquiterpenes	29.36%
Monoterpenols	0.00%
Sesquiterpenols	28.98%
Ketones	14.39%
Esters	0.00%
Ethers	0.00%
Aldehydes	2.98%
Phenols	0.03%
Other	24.26%

Client



Source



Vetiver (Vetiveria zizanioides)
MA-58892

Total Percentage		77.80%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	8.95	0.01%	Furfural	828.00	Furan
2	27.82	0.03%	4-Vinylguaicol	1315.00	Simple Phenolic
3	29.09	0.10%	2-Norprezizene	1358.50	Norsesquiterpene
4	29.23	0.08%	12-Norisoziza-5-ene	1365.50	Norsesquiterpene
5	29.75	1.20%	alpha-Ylangene	1371.33	Sesquiterpene
6	30.01	0.14%	Nigritene	1372.00	Norsesquiterpene
7	30.24	0.17%	alpha-Copaene	1379.00	Sesquiterpene
8	30.39	1.19%	beta-Elemene	1389.20	Sesquiterpene
9	30.63	2.56%	Sativene	1395.00	Sesquiterpene
10	30.78	0.13%	Sesquithujene	1405.00	Sesquiterpene
11	31.00	0.09%	diepi-alpha-Cedrene	1400.10	Sesquiterpene
12	31.17	0.12%	Acora-3,7(14)-diene	1410.25	Sesquiterpene
13	31.32	0.21%	beta-Funebrene	1413.00	Sesquiterpene
14	31.60	0.23%	beta-Caryophyllene	1427.14	Sesquiterpene
15	31.67	0.10%	beta-Cedrene	1428.00	Sesquiterpene
16	31.78	0.21%	beta-Gurjunene	1433.00	Sesquiterpene
17	31.86	0.27%	alpha-Guaiene	1438.67	Sesquiterpene
18	32.26	1.03%	Prezizaene	1444.10	Sesquiterpene
19	32.43	0.73%	Aromadendrene	1449.80	Sesquiterpene
20	32.59	0.78%	Khusimene	1460.50	Sesquiterpene
21	32.67	0.48%	alpha-Acoradiene	1463.00	Sesquiterpene
22	33.15	0.19%	Thujopsadiene	1465.10	Sesquiterpene
23	33.38	1.58%	alpha-Amorphene	1481.75	Sesquiterpene
24	33.57	2.66%	alpha-Vetispirene	1490.10	Sesquiterpene
25	33.74	1.65%	delta-Selinene	1494.00	Sesquiterpene
26	33.82	0.38%	gamma-Amorphene	1493.00	Sesquiterpene
27	34.09	0.35%	Nootkatene	1504.50	Sesquiterpene
28	34.20	0.94%	beta-Bisabolene	1509.86	Sesquiterpene
29	34.46	0.36%	gamma-Cadinene	1515.29	Sesquiterpene
30	34.67	0.59%	delta-Cadinene	1524.14	Sesquiterpene
31	34.87	2.51%	gamma-Vetivenene	1532.00	Sesquiterpene
32	35.12	0.23%	alpha-Calacorene	1537.14	Sesquiterpene
33	35.31	0.64%	Elemol	1538.00	Sesquiterpenol
34	35.43	0.39%	gamma-Calacorene	1540.12	Sesquiterpene
35	35.68	4.48%	beta-Vetivenene	1542.75	Sesquiterpene

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Client



Source



Vetiver (Vetiveria zizanioides)
MA-58892

Number	RT	Area %	Compound Name	RI	Chemical Family
36	35.89	2.13%	beta-Vetivenene isomer I	1573.3	Sesquiterpene
37	36.66	1.42%	beta-Vetivenene isomer II	1595.00	Sesquiterpene
38	37.14	2.57%	Khusimone	1604.00	Normonoterpene Ketone
39	37.52	1.00%	10-epi-gamma-Eudesmol	1620.00	Sesquiterpenol
40	37.64	1.52%	Junenol	1625.00	Sesquiterpenol
41	37.93	0.49%	T-Cadinol	1640.43	Sesquiterpenol
42	38.07	0.86%	alpha-Muurolol	1649.33	Sesquiterpenol
43	38.33	0.52%	beta-Eudesmol	1650.75	Sesquiterpenol
44	38.53	3.75%	alpha-Cadinol	1655.00	Sesquiterpenol
45	38.65	0.88%	7-epi-alpha-eudesmol	1655.10	Sesquiterpenol
46	38.72	1.51%	Cyclocopacampha-12-ol (epimer A)	1664.53	Sesquiterpenol
47	38.92	0.81%	epi-Zizanone	1667.53	Sesquiterpene Ketone
48	39.04	1.90%	Cyclocopacampha-12-ol (epimer B)	1667.54	Sesquiterpenol
49	39.18	1.54%	Khusiol	1688.53	Sesquiterpenol
50	39.63	0.96%	Zizanal	1688.75	Sesquiterpene Aldehyde
51	39.79	1.25%	Junipercamphor	1693.10	Sesquiterpene Ketone
52	40.22	3.25%	Vetiselinenol	1716.00	Sesquiterpenol
53	41.13	10.76%	Khusimol	1735.00	Sesquiterpenol
54	41.45	0.36%	Isovalencenol	1788.00	Sesquiterpenol
55	42.27	2.02%	(E)-Isovalencenal	1806.00	Sesquiterpene Aldehyde
56	42.74	0.65%	Nootkatone	1807.00	Sesquiterpene Ketone
57	42.93	1.73%	Zizanoicacid	1811.00	Sesquiterpene Acid
58	43.04	4.69%	beta-Vetivone	1814.00	Sesquiterpene Ketone
59	43.72	4.42%	alpha-Vetivone	1822.00	Sesquiterpene Ketone

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