

Vetiver (*Vetiveria zizanioides*)
26146C

Client



Source



Sample

Vetiver (*Vetiveria zizanioides*)

Batch #:..... 26146C

Type:..... Essential Oil

CAS Number:... 84238-29-9

American College of Of Health Care Sciences

Client



Website

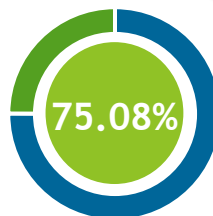
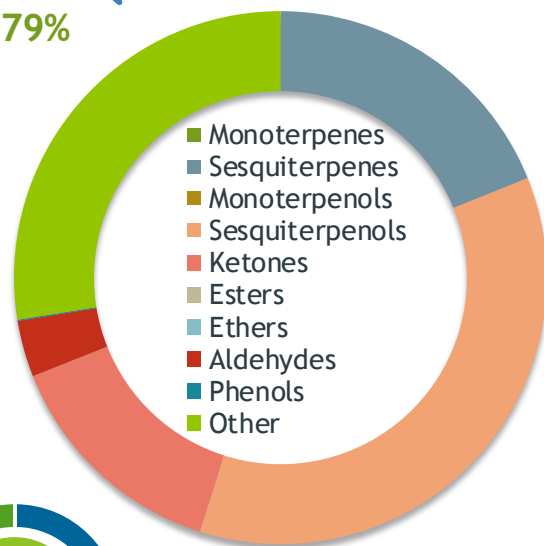


Primary

8.63% | Khusimol
5.72% | Isovalencenol
5.45% | beta-Eudesmol

Sesquiterpenols

35.79%



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 Vetiver (*Vetiveria zizanioides*)

RI@20C = >1.504 | SG@22.5C = 0.995

Internal Number: | EVS-3478



Essential Validation Services

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

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

adam@essentialvalidationservices.com

Monoterpenes	0.00%
Sesquiterpenes	18.80%
Monoterpenols	0.00%
Sesquiterpenols	35.79%
Ketones	14.00%
Esters	0.00%
Ethers	0.00%
Aldehydes	3.40%
Phenols	0.08%
Other	27.38%

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
 - SG: SOP.T.02 Client Method @22.5C RI: SOP.T.03 Client Method - ND @20C
 - This report may not be published without the consent of Essential Validation Services.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



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Total Percentage		75.08%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.36	0.01%	Furfural	Furan
2	25.60	0.01%	4-Vinylguaiacol	Simple Phenolic
3	27.28	0.03%	alpha-Cubebene	Sesquiterpene
4	28.12	0.42%	12-Norisoziza-5-ene	Norsesquiterpene
5	28.21	0.11%	alpha-Ylangene	Sesquiterpene
6	28.48	0.01%	alpha-Copaene	Sesquiterpene
7	28.72	0.12%	23.75 Funebrene<2-epi-alpha->	0.00
8	29.72	0.04%	beta-Cubebene	Sesquiterpene
9	29.96	0.10%	Acora-3,7(14)-diene	Sesquiterpene
10	30.28	0.08%	alpha-Gurjunene	Sesquiterpene
11	30.45	0.13%	beta-Cedrene	Sesquiterpene
12	30.55	0.08%	Thujopsene	Sesquiterpene
13	30.80	0.17%	beta-Gurjunene	Sesquiterpene
14	31.00	0.09%	alpha-Guaiene	Sesquiterpene
15	31.25	0.11%	6,9-Guaiadiene	Sesquiterpene
16	31.35	0.04%	Acora-2,4(15)-diene	Sesquiterpene
17	31.46	0.07%	(E)-Isoeugenol	Phenylpropanoid
18	31.57	0.48%	Prezizaene	Sesquiterpene
19	31.76	0.59%	Khusimene	Sesquiterpene
20	31.90	0.36%	gamma-Muurolene	Sesquiterpene
21	32.18	0.53%	UK Vetiver	
22	32.42	0.25%	UK Vetiver	
23	32.81	1.87%	alpha-Amorphene	Sesquiterpene
24	32.98	1.24%	alpha-Vetispirene	Sesquiterpene
25	33.18	2.02%	beta-Vetispirene	Sesquiterpene
26	33.45	0.07%	alpha-Selinene	Sesquiterpene
27	33.78	0.73%	beta-Cadinene	Sesquiterpene
28	34.15	0.54%	Nootkatene	Sesquiterpene
29	34.24	0.24%	beta-Himachalene	Sesquiterpene
30	34.39	0.97%	gamma-Cadinene	Sesquiterpene
31	34.56	0.10%	Zonarene	Sesquiterpene
32	34.73	1.10%	gamma-Vetivenene	Sesquiterpene
33	35.05	0.33%	UK Vetiver	
34	35.24	0.57%	alpha-Calacorene	Sesquiterpene
35	35.55	0.47%	Elemol	Sesquiterpenol

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

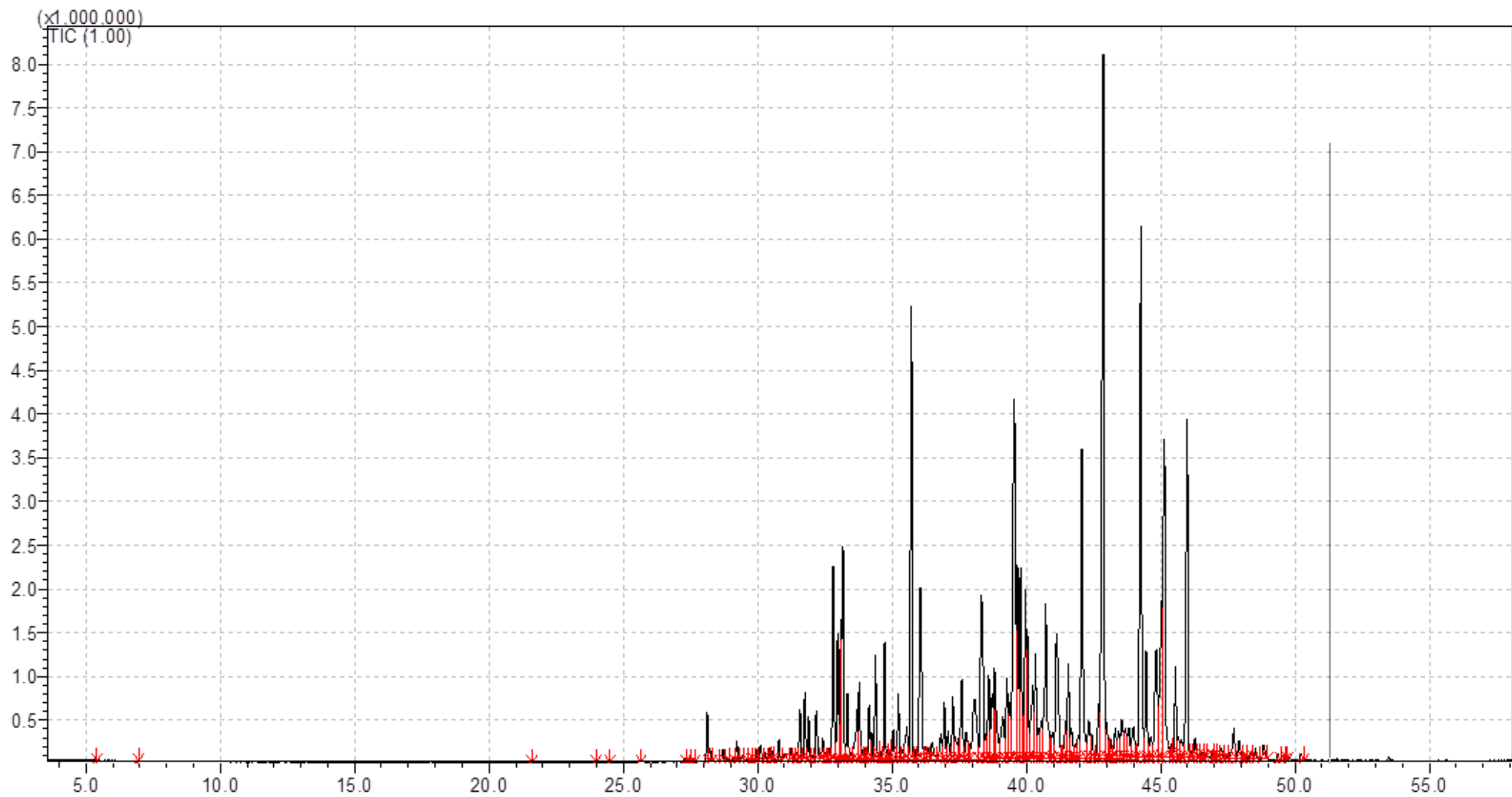
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Vetiver (*Vetiveria zizanioides*)

26146C

Number	RT	Area %	Compound Name	Chemical Family
36	35.72	4.04%	beta-Vetivenene	Sesquiterpenol
37	36.07	2.32%	beta-Vetivenene isomer I	Sesquiterpene
38	36.95	0.57%	beta-Vetivenene isomer II	Sesquiterpene
39	37.26	0.61%	Cedrol	Sesquiterpenol
40	37.60	0.91%	Khusimone	Normonoterpene Ketone
41	38.33	2.55%	Junenol	Sesquiterpenol
42	38.73	0.72%	gamma-Eudesmol	Sesquiterpenol
43	38.81	0.87%	1-epi-Cubenol	Sesquiterpenol
44	39.55	5.45%	beta-Eudesmol	Sesquiterpenol
45	39.67	1.84%	Cyclocopacampha-12-ol (epimer A)	Sesquiterpenol
46	39.79	2.01%	alpha-Muurolol	Sesquiterpenol
47	39.97	1.68%	Zizanol	Sesquiterpenol
48	40.04	1.19%	epi-Zizanone	Sesquiterpene Ketone
49	40.24	1.15%	Cyclocopacampha-12-ol (epimer B)	Sesquiterpenol
50	40.72	2.26%	Zizanal	Sesquiterpene Aldehyde
51	41.12	2.04%	Junipercamphor	Sesquiterpene Ketone
52	41.46	0.44%	36.72 Nootkatol<epi->	0.00
53	42.07	3.81%	Vetiselinenol	Sesquiterpenol
54	42.42	0.28%	Oplopanone	Sesquiterpenol
55	42.87	8.63%	Khusimol	Sesquiterpenol
56	42.99	0.33%	Isobicyclogermacrenal	
57	44.27	5.72%	Isovalencenol	Sesquiterpenol
58	44.46	1.14%	(E)-Isovalencenal	Sesquiterpene Aldehyde
59	44.84	1.74%	Nootkatone	Sesquiterpene Ketone
60	45.03	1.96%	Zizanoicacid	Sesquiterpene Acid
61	45.13	4.70%	beta-Vetivone	Sesquiterpene Ketone
62	45.99	3.42%	alpha-Vetivone	Sesquiterpene Ketone
63	50.23	0.06%	Hexadecanoic acid	Fatty Acid





Purity Laboratories, Inc.

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www.puritylabsinc.com

Page 1 of 1

For: American College of Healthcare Sciences
5940 SW Hood ave
Portland, Oregon, 97239
United States
(971) 703-5064

Case#: 1912048

Received Date: 12/04/2019

Tested Date: 12/06/2019

ATTN: Natalya Shepeleva
natalyashepeleva@achs.edu
(971) 703-5064

Completed Date: 12/23/2019

Purchase Order:

Case Notes:

Sample#: 1912048-01		Sample Description: Vetiver essential oil Lot# 26146C	
Test	Unit	Result	Method
AMPA	ppb	None Detected (< 180)	HPLC
Glyphosate	ppb	None Detected (< 210)	HPLC
Multiresidue Pesticide Screen	pass / fail	Pass	AOAC 2007.1, European EN 15662 Method

Reviewed By _____


Joshua Wyman
Quality Assurance
Manager

Date _____

12/26/19

Amended Report