

Client



Source



Immortelle (*Helichrysum Italicum*)
39150R

Sample

Immortelle (*Helichrysum Italicum*)

Batch #:..... 39150R

Type:..... Essential Oil

CAS Number:... 90045-56-0

ACHS & Apothecary Shoppe

Client



Website



Primary

39.56%

Neryl acetate

7.84%

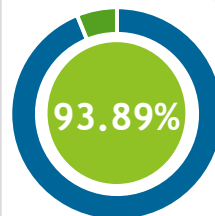
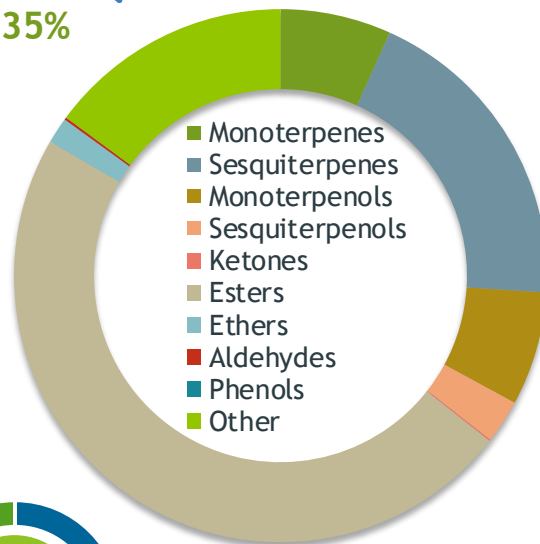
gamma-Curcumene

5.81%

Neryl propionate

Esters

47.35%



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 Immortelle (*Helichrysum Italicum*)

SG: 0.9078 @ 23° C RI: 1.4695 ND 20

Internal Number: | EVS-3621



Essential Validation Services

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

317.361.5044 |

<https://essentialvalidationservices.com/>

adam@essentialvalidationservices.com

Monoterpenes	6.6	6.68%
Sesquiterpenes	19.12%	19.12%
Monoterpenols	6.8	6.85%
Sesquiterpenols		2.63%
Ketones		0.08%
Esters	47.35%	47.35%
Ethers		1.57%
Aldehydes		0.14%
Phenols		0.00%
Other	14.77%	14.77%

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Total Percentage		93.89%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.99	0.01%	(E)-2-Hexenal	Aliphatic Aldehyde
2	6.04	0.04%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
3	6.36	0.02%	(E)-2-Hexenol	Aliphatic Alcohol
4	6.47	0.06%	1-Hexanol	Aliphatic Alcohol
5	6.79	0.01%	2-Methylbutyl acetate	Aliphatic Ester
6	7.65	0.02%	Bornylene	Monoterpene
7	8.73	1.24%	alpha-Pinene	Monoterpene
8	9.30	0.31%	alpha-Fenchene	Monoterpene
9	9.36	0.09%	Camphene	Monoterpene
10	10.50	0.35%	beta-Pinene	Monoterpene
11	10.86	0.02%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
12	11.08	0.12%	trans-Dehydroxy linalool oxide	Monoterpene Ether
13	11.23	0.02%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
14	11.65	0.02%	Isobutyl 2-methylbutyrate	Aliphatic Ester
15	11.75	0.10%	(Z)-3-Hexenyl acetate	Aliphatic Ester
16	12.09	0.03%	Hexyl acetate	Aliphatic Ester
17	12.23	0.06%	2-Carene	Monoterpene
18	12.36	0.01%	para-Cresyl methyl ether	Monoterpene Ether
19	12.56	0.24%	para-Cymene	Monoterpene
20	12.78	3.51%	Limonene	Monoterpene
21	12.88	1.32%	1,8-Cineole	Monoterpene Ether
22	13.15	0.01%	(Z)-beta-Ocimene	Monoterpene
23	13.62	0.07%	(E)-beta-Ocimene	Monoterpene
24	13.77	0.09%	Isobutyl angelate	Aliphatic Ester
25	14.11	0.25%	gamma-Terpinene	Monoterpene
26	14.67	0.01%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
27	15.35	0.08%	Isoterpinolene	Monoterpene
28	15.67	0.34%	Undecane	Alkane
29	16.06	1.41%	Linalool	Monoterpenol
30	16.19	0.13%	2-Nonanol	Monoterpenol
31	16.28	0.04%	Nonanal	Aliphatic Aldehyde
32	16.48	0.02%	Isoamyl isovalerate	Aliphatic Ester
33	16.86	0.04%	Fenchol	Monoterpenol
34	18.45	0.70%	Isoamyl angelate	Aliphatic Ester
35	19.05	0.01%	Isoamyl tiglate	Aliphatic Ester

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Number	RT	Area %	Compound Name	Chemical Family
36	19.288	0.07%	Borneol	Aliphatic Ester
37	19.72	0.40%	Terpinen-4-ol	Monoterpenol
38	19.82	0.37%	4,6-Dimethyl-3,5- octanedione	beta-Diketone
39	20.06	0.02%	trans-para-Mentha-1(7),8-dien-2-ol	Monoterpenol
40	20.40	0.70%	alpha-Terpineol	Monoterpenol
41	20.80	0.02%	Dodecane	Alkane
42	21.01	0.02%	Decanal	Aliphatic Aldehyde
43	21.84	4.01%	Nerol	Monoterpenol
44	22.40	0.04%	Neral	Monoterpene Aldehyde
45	22.71	0.03%	cis-Myrtanol	Monoterpenol
46	23.01	0.25%	Linalyl acetate	Monoterpene Ester
47	23.75	0.03%	Geranial	Monoterpene Aldehyde
48	24.92	0.06%	2-Undecanone	Aliphatic Ketone
49	25.21	0.03%	Carvacrol	Monoterpenol
50	25.34	0.30%	Tridecane	Alkane
51	27.22	0.01%	alpha-Terpinyl acetate	Monoterpene Ester
52	27.92	39.56%	Neryl acetate	Monoterpene Ester
53	28.08	0.01%	Decanoic acid	Monoterpene Acid
54	28.65	0.09%	Geranyl acetate	Monoterpene Ester
55	28.90	0.17%	cis-Carvyl acetate	Monoterpene Ester
56	29.70	2.41%	Italicene	Sesquiterpene
57	30.09	1.11%	cis-alpha-Bergamotene	Sesquiterpene
58	30.27	0.36%	beta-Caryophyllene	Sesquiterpene
59	30.90	3.20%	Italidione I	beta-Diketone
60	31.45	0.14%	epi-beta-Santalene	Sesquiterpene
61	31.61	5.81%	Neryl propionate	Monoterpene Ester
62	31.79	0.38%	(E)-beta-Farnesene	Sesquiterpene
63	31.95	0.16%	alpha-Himachalene	Sesquiterpene
64	32.11	0.36%	alpha-Acoradiene	Sesquiterpene
65	32.26	0.35%	10-epi-beta-Acoradiene	Sesquiterpene
66	32.45	0.09%	Geranyl propionate	Monoterpene Ester
67	32.63	1.50%	Italidione II	beta-Diketone
68	32.78	7.84%	gamma-Curcumene	Sesquiterpene
69	32.89	3.96%	ar-Curcumene	Sesquiterpene
70	33.00	0.40%	Zingiberene	Sesquiterpene
71	33.12	0.54%	beta-Selinene	Sesquiterpene

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72	33.24	0.13%	2-Phenylethyl 3-methylbutyrate	Monoterpene Ester
73	33.43	0.37%	alpha-Selinene	Sesquiterpene
74	33.57	0.11%	alpha-Muurolene	Sesquiterpene
75	33.70	0.13%	delta-Guaiene	Sesquiterpene
76	33.98	0.19%	beta-Bisabolene	Sesquiterpene
77	34.05	0.45%	beta-Curcumene	Monoterpene
78	34.24	0.03%	Italidione II isomer	beta-Diketone
79	34.36	0.12%	delta-Cadinene	Sesquiterpene
80	34.72	0.10%	trans-gamma-Bisabolene	Sesquiterpene
81	34.91	0.12%	Italicene ether	Sesquiterpene Ether
82	34.99	0.10%	Geranyl isobutyrate	Monoterpene Ester
83	35.27	0.09%	trans-alpha-Bisabolene	Sesquiterpene
84	36.07	0.07%	(E)-Nerolidol	Sesquiterpenol
85	36.23	0.48%	Italidione III isomer	beta-Diketone
86	36.47	1.09%	Italidione III isomer II	beta-Diketone
87	36.81	0.81%	32.18 Neryl isovalerate	0.00
88	37.38	0.73%	Guaiol	Sesquiterpenol
89	37.94	1.83%	Rosifoliol	Sesquiterpenol
90	38.32	0.16%	Geranyl isovalerate	Aliphatic Ester
91	38.68	0.22%	gamma-Eudesmol	Sesquiterpenol
92	39.48	0.96%	beta-Eudesmol	Sesquiterpenol
93	39.91	0.14%	Bulnesol	Sesquiterpenol
94	40.14	0.19%	epi-beta-Bisabolol	Sesquiterpenol
95	40.69	0.12%	alpha-Bisabolol	Sesquiterpenol
96	41.86	0.01%	Pentadecanal	Sesquiterpene Aldehyde
97	48.31	0.02%	Nonadecane	Alkane
98	54.62	0.01%	Heneicosane	Alkane
99	58.83	0.01%	Tricosane	Alkane

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Purity Laboratories, Inc.

17387 SW 63rd St.
Lake Oswego, OR 97035
Phone: 503.297.3636 Fax: 503.297.3738

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#: 2001268

Received Date: 01/22/2020

Tested Date: 02/07/2020

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

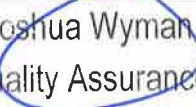
Completed Date: 02/12/2020

Purchase Order:

Case Notes:

Sample#: 2001268-01		Sample Description: Immortelle essential oil Lot#39150R	
Test	Unit	Result	Method
AMPA	ppb	None Detected (< 190)	HPLC
Glyphosate	ppb	None Detected (< 150)	HPLC
Multiresidue Pesticide Screen	pass / fail	Pass	AOAC 2007.1, European EN 15662 Method

Reviewed By _____


Joshua Wyman
Quality Assurance
Manager

Date _____

2/13/20

Amended Report