

Client



Source



Red Mandarin (Citrus reticulata)

BR-59417 - Brazil

Sample

Red Mandarin (Citrus reticulata)

Identification #: BR-59417

Type:..... Essential Oil

CAS Number:... 8008-31-9

Nature's Gift

Properties

Country Of Origin | Brazil

Specific Gravity | NT

Refractive Index | NT

Primary

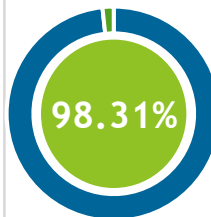
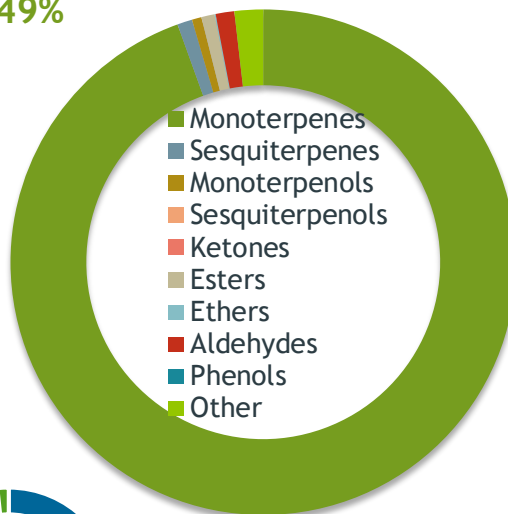
**61.27%** | Limonene (Co-Eluting)

**19.68%** | gamma-Terpinene

**3.14%** | alpha-Pinene

Monoterpenes

94.49%



Percentage Identified

Result



12/9/2024

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Red Mandarin (Citrus reticulata)

Internal Number: | EVS-6438



Essential Validation Services

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

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

*Alan Christen*

Monoterpenes	94.49%	94.49
Sesquiterpenes		0.96%
Monoterpenols		0.61%
Sesquiterpenols		0.00%
Ketones		0.00%
Esters		0.85%
Ethers		0.07%
Aldehydes		1.19%
Phenols		0.00%
Other		1.83%

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Client



Source

Red Mandarine (*Citrus nobilis*)

BR-59417

Total Percentage		98.31%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.93	1.28%	alpha-Thujene	Monoterpene
2	8.19	3.14%	alpha-Pinene	Monoterpene
3	8.79	0.02%	Camphene	Monoterpene
4	9.73	0.44%	Sabinene	Monoterpene
5	9.90	2.31%	beta-Pinene	Monoterpene
6	10.49	2.95%	Myrcene	Monoterpene
7	11.07	0.09%	Octanal	Aliphatic Aldehyde
8	11.13	0.12%	alpha-Phellandrene	Monoterpene
9	11.61	0.65%	alpha-Terpinene	Monoterpene
10	11.97	1.22%	para-Cymene	Monoterpene
11	12.40	61.27%	Limonene	Monoterpene
12	12.45	Co-Eluting	beta-Phellandrene	Monoterpene
13	12.49	Co-Eluting	1,8-Cineole	Monoterpene Ether
14	12.56	0.02%	(Z)-beta-Ocimene	Monoterpene
15	12.99	0.04%	(E)-beta-Ocimene	Monoterpene
16	13.57	19.68%	gamma-Terpinene	Monoterpene
17	13.99	0.03%	trans-Sabinene hydrate	Monoterpenol
18	14.67	1.35%	Terpinolene	Monoterpene
19	15.40	0.20%	Linalool	Monoterpenol
20	15.61	0.04%	Nonanal	Aliphatic Aldehyde
21	16.80	0.03%	cis-Limonene oxide	Monoterpene Ether
22	17.01	0.03%	trans-Limonene oxide	Monoterpene Ether
23	17.77	0.05%	Citronellal	Monoterpene Aldehyde
24	19.00	0.08%	Terpinen-4-ol	Monoterpenol
25	19.70	0.21%	alpha-Terpineol	Monoterpenol
26	20.26	0.20%	Decanal	Aliphatic Aldehyde
27	21.25	0.01%	Citronellol	Monoterpenol
28	23.25	0.08%	Perilla aldehyde	Monoterpene Aldehyde
29	24.21	0.08%	Thymol	Monoterpenol
30	24.81	0.02%	Undecanal	Sesquiterpene Aldehyde
31	26.63	0.02%	Citronellyl acetate	Monoterpene Ester
32	27.59	0.03%	alpha-Copaene	Sesquiterpene
33	27.86	0.01%	Geranyl acetate	Monoterpene Ester
34	28.12	0.02%	beta-Cubebene	Sesquiterpene
35	28.21	0.02%	beta-Elemene	Sesquiterpene

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Red Mandarin (*Citrus nobilis*)  
BR-59417

Number	RT	Area %	Compound Name	Chemical Family
36	28.897	0.82%	Methyl N-methyl anthranilate	Sesquiterpene
37	29.17	0.07%	Dodecanal	Aliphatic Aldehyde
38	29.38	0.19%	Isocaryophyllene	Sesquiterpene
39	30.85	0.02%	alpha-Humulene	Sesquiterpene
40	31.51	0.02%	(E)-2-Dodecenal	Sesquiterpene Aldehyde
41	31.90	0.01%	Germacrene D	Sesquiterpene
42	32.52	0.14%	alpha-Selinene	Sesquiterpene
43	33.02	0.50%	(E,E)-alpha-Farnesene	Sesquiterpene
44	33.47	0.03%	delta-Cadinene	Sesquiterpene
45	35.82	0.01%	Caryophyllene oxide	Sesquiterpene Ether
46	37.24	0.01%	Tetradecanal	Sesquiterpene Aldehyde
47	42.11	0.59%	alpha-Sinensal	Sesquiterpene Aldehyde
48	44.54	0.02%	Hexadecanal	Sesquiterpene Aldehyde
49	58.37	0.02%	Tricosane	Alkane
50	59.38	0.01%	Tetracosane	Alkane
51	60.12	0.03%	Pentacosane	Alkane
52	60.72	0.01%	Hexacosane	Alkane
53	61.24	0.03%	Heptacosane	Alkane
54	62.27	0.04%	Nonacosane	Alkane

