

Client



Source



Mandarin, Green, Organic (*Citrus reticulata blanco*)
B590030

Sample

Mandarin, Green, Organic (*Citrus reticulata*)

Batch #:..... B590030

Type:..... Essential Oil

CAS Number:... 8008-31-9

Natural Sourcing LLC

Client



Website



Primary

61.69%

Limonene

22.42%

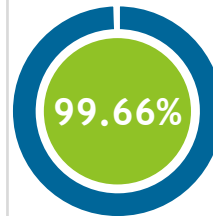
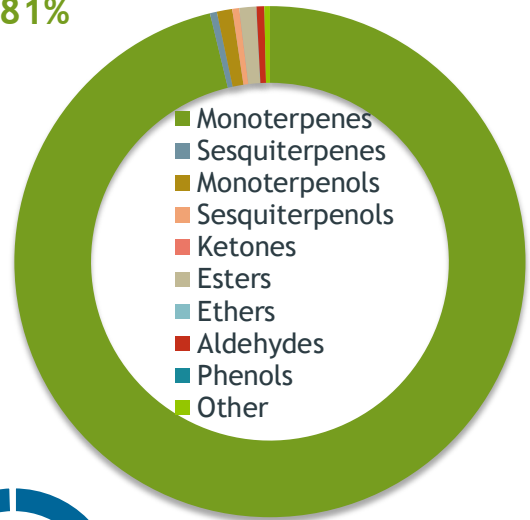
gamma-Terpinene

2.89%

alpha-Pinene

Monoterpenes

95.81%



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 Mandarin, Green, Organic (*Citrus reticulata blanco*)

Internal Number: | EVS-4897



Essential Validation Services

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

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

Alan Chastain

Monoterpenes	95.81%	95.81%
Sesquiterpenes		0.44%
Monoterpenols		0.97%
Sesquiterpenols		0.43%
Ketones		0.01%
Esters		1.05%
Ethers		0.02%
Aldehydes		0.49%
Phenols		0.00%
Other		0.35%

Client


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 Cosmetic and Personal Care Ingredient Specialists
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Source



Mandarin, Green, Organic (Citrus reticulata blanco)
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Total Percentage		99.66%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.76	1.19%	alpha-Thujene	Monoterpene
2	8.01	2.89%	alpha-Pinene	Monoterpene
3	8.60	0.03%	Camphene	Monoterpene
4	9.55	0.38%	Sabinene	Monoterpene
5	9.71	2.14%	beta-Pinene	Monoterpene
6	10.30	2.34%	Myrcene	Monoterpene
7	10.88	0.17%	Octanal	Aliphatic Aldehyde
8	10.93	0.10%	alpha-Phellandrene	Monoterpene
9	11.41	0.65%	alpha-Terpinene	Monoterpene
10	11.76	0.67%	para-Cymene	Monoterpene
11	12.07	61.69%	Limonene	Monoterpene
12	12.33	0.02%	(E)-beta-Ocimene	Monoterpene
13	12.79	0.04%	(Z)-beta-Ocimene	Monoterpene
14	13.31	22.42%	gamma-Terpinene	Monoterpene
15	13.77	0.06%	trans-Sabinene hydrate	Monoterpenol
16	14.47	1.25%	Terpinolene	Monoterpene
17	15.19	0.30%	Linalool	Monoterpenol
18	15.41	0.04%	Nonanal	Aliphatic Aldehyde
19	16.60	0.01%	cis-Limonene oxide	Monoterpene Ether
20	16.81	0.01%	trans-Limonene oxide	Monoterpene Ether
21	18.78	0.08%	Terpinen-4-ol	Monoterpenol
22	19.47	0.35%	alpha-Terpineol	Monoterpenol
23	20.07	0.15%	Decanal	Aliphatic Aldehyde
24	20.89	0.01%	Nerol	Monoterpenol
25	21.04	0.03%	Citronellol	Monoterpenol
26	21.65	0.01%	Carvone	Monoterpene Ketone
27	22.08	0.01%	Linalyl acetate	Monoterpene Ester
28	22.82	0.01%	Citral	Monoterpene Aldehyde
29	23.04	0.05%	Perilla aldehyde	Monoterpene Aldehyde
30	23.93	0.11%	Thymol	Monoterpenol
31	24.35	0.03%	Ascaridole	Monoterpenol
32	24.64	0.01%	Undecanal	Sesquiterpene Aldehyde
33	27.42	0.02%	alpha-Copaene	Sesquiterpene
34	27.97	0.02%	beta-Cubebene	Sesquiterpene
35	28.05	0.01%	beta-Elemene	Sesquiterpene

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

- 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

