

Client



Source



Lemon NF (Citrus x limon)
NF-LEMO-21-B

Sample

Lemon NF (Citrus x limon)

Batch #:..... NF-LEMO-21-B

Type:..... Essential Oil

CAS Number:.... 8008-56-8

Nature's Fusions

Client



Website

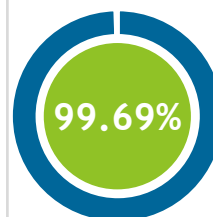
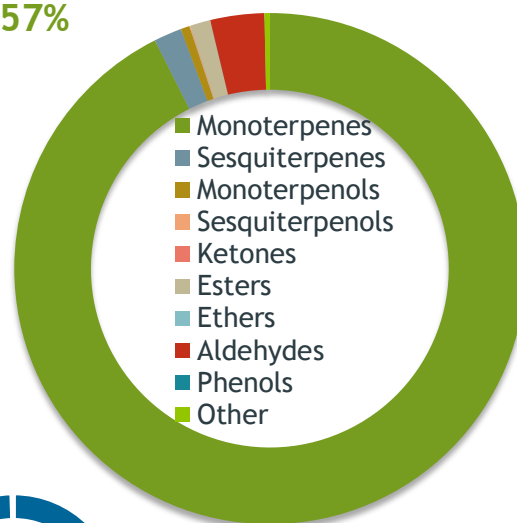


Primary

62.08%Limonene13.28%beta-Pinene9.82%gamma-Terpinene

Monoterpenes

92.57%



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 Lemon NF (Citrus x limon)

Internal Number: | EVS-4290



Essential Validation
Services

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

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

Monoterpenes	92.57%	92.57%
Sesquiterpenes		1.77%
Monoterpenols		0.56%
Sesquiterpenols		0.05%
Ketones		0.01%
Esters		1.28%
Ethers		0.01%
Aldehydes		3.41%
Phenols		0.00%
Other		0.34%

Client

Nature's FUSIONS
ESSENTIAL OILS

Source



Lemon NF (Citrus x limon)

NF-LEMO-21-B

Total Percentage		99.69%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.94	0.45%	alpha-Thujene	Monoterpene
2	8.19	1.93%	alpha-Pinene	Monoterpene
3	8.80	0.06%	Camphene	Monoterpene
4	9.60	0.02%	Isopropyl tiglate	Aliphatic Ester
5	9.75	2.24%	Sabinene	Monoterpene
6	9.93	13.28%	beta-Pinene	Monoterpene
7	10.31	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
8	10.50	1.61%	Myrcene	Monoterpene
9	11.08	0.09%	Octanal	Aliphatic Aldehyde
10	11.15	0.03%	alpha-Phellandrene	Monoterpene
11	11.62	0.20%	alpha-Terpinene	Monoterpene
12	11.96	0.35%	para-Cymene	Monoterpene
13	12.27	62.08%	Limonene	Monoterpene
14	12.54	0.04%	(Z)-beta-Ocimene	Monoterpene
15	13.00	0.09%	(E)-beta-Ocimene	Monoterpene
16	13.49	9.82%	gamma-Terpinene	Monoterpene
17	13.99	0.02%	trans-Sabinene hydrate	Monoterpenol
18	14.69	0.39%	Terpinolene	Monoterpene
19	15.41	0.14%	Linalool	Monoterpenol
20	15.63	0.12%	Nonanal	Aliphatic Aldehyde
21	16.84	0.01%	cis-Limonene oxide	Monoterpene Ether
22	17.80	0.12%	Citronellal	Monoterpene Aldehyde
23	19.01	0.08%	Terpinen-4-ol	Monoterpenol
24	19.11	0.01%	(E)-Isocitral	Monoterpene Aldehyde
25	19.70	0.21%	alpha-Terpineol	Monoterpenol
26	20.30	0.07%	Decanal	Aliphatic Aldehyde
27	20.91	0.01%	Citronellol	Monoterpenol
28	21.11	0.06%	Nerol	Monoterpenol
29	21.69	1.12%	Neral	Monoterpene Aldehyde
30	22.32	0.04%	Geraniol	Monoterpenol
31	23.05	1.86%	Geranial	Monoterpene Aldehyde
32	24.87	0.02%	Undecanal	Sesquiterpene Aldehyde
33	25.82	0.02%	delta-Elementene	Sesquiterpene
34	26.70	0.05%	Citronellyl acetate	Monoterpene Ester
35	27.08	0.63%	Neryl acetate	Monoterpene Ester

Lemon NF (Citrus x limon)
NF-LEMO-21-B

[illegible]



Source



Lemon NF (Citrus x limon)
NF-LEMO-21-B

Client



Source



Lemon (*Citrus x limon*)
NF-LEMD-20-A

Sample

Lemon (*Citrus x limon*)

Batch #:..... NF-LEMD-20-A

Type:..... Essential Oil

CAS Number:.... 8008-56-8

Nature's Fusions

Client



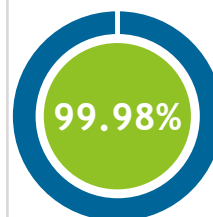
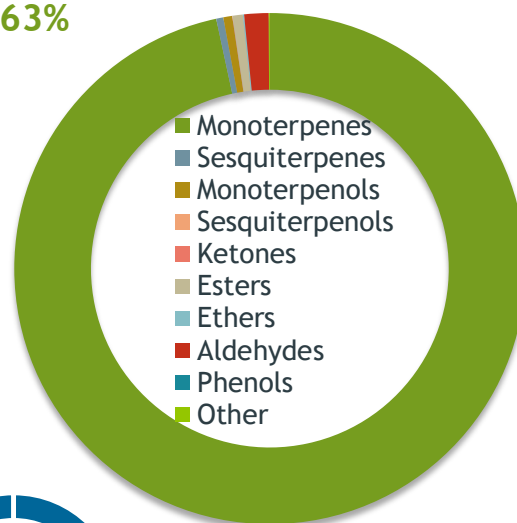
Website



Primary

63.88%**Limonene****13.29****beta-Pinene****9.70%****gamma-Terpinene**

Monoterpenes

96.63%

**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 Lemon (*Citrus x limon*)

Internal Number: | EVS-4081



**Essential Validation
Services**

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Monoterpenes	96.63%	96.63%
Sesquiterpenes		0.45%
Monoterpenols		0.56%
Sesquiterpenols		0.00%
Ketones		0.02%
Esters		0.65%
Ethers		0.08%
Aldehydes		1.54%
Phenols		0.00%
Other		0.07%

Client


Nature's FUSIONS
 ESSENTIAL OILS

Source

Lemon (*Citrus x limon*)

NF-LEMD-20-A

Total Percentage		99.98%		
Number	RT	Area %	Compound Name	Chemical Family
1	8.03	0.46%	alpha-Thujene	Monoterpene
2	8.28	2.04%	alpha-Pinene	Monoterpene
3	8.90	0.06%	Camphene	Monoterpene
4	9.85	2.50%	Sabinene	Monoterpene
5	10.03	13.29%	beta-Pinene	Monoterpene
6	10.60	1.96%	Myrcene	Monoterpene
7	11.19	0.09%	Octanal	Aliphatic Aldehyde
8	11.25	0.03%	alpha-Phellandrene	Monoterpene
9	11.73	0.19%	alpha-Terpinene	Monoterpene
10	12.07	1.97%	para-Cymene	Monoterpene
11	12.38	63.88%	Limonene	Monoterpene
12	12.65	0.04%	(Z)-beta-Ocimene	Monoterpene
13	13.11	0.09%	(E)-beta-Ocimene	Monoterpene
14	13.60	9.70%	gamma-Terpinene	Monoterpene
15	14.10	0.04%	trans-Sabinene hydrate	Monoterpenol
16	14.25	0.05%	1-Octanol	Aliphatic Alcohol
17	14.80	0.42%	Terpinolene	Monoterpene
18	15.52	0.17%	Linalool	Monoterpenol
19	15.75	0.14%	Nonanal	Aliphatic Aldehyde
20	16.96	0.04%	cis-Limonene oxide	Monoterpene Ether
21	17.16	0.04%	trans-Limonene oxide	Monoterpene Ether
22	17.92	0.09%	Citronellal	Monoterpene Aldehyde
23	19.14	0.06%	Terpinen-4-ol	Monoterpenol
24	19.83	0.19%	alpha-Terpineol	Monoterpenol
25	20.43	0.04%	Decanal	Aliphatic Aldehyde
26	21.24	0.05%	Nerol	Monoterpenol
27	21.82	0.48%	Neral	Monoterpene Aldehyde
28	22.01	0.02%	Carvone	Monoterpene Ketone
29	22.44	0.05%	Geraniol	Monoterpenol
30	23.17	0.68%	Geranial	Monoterpene Aldehyde
31	23.39	0.02%	Perilla aldehyde	Monoterpene Aldehyde
32	26.83	0.02%	Citronellyl acetate	Monoterpene Ester
33	27.20	0.40%	Neryl acetate	Monoterpene Ester
34	28.05	0.23%	Geranyl acetate	Monoterpene Ester
35	29.60	0.09%	cis-Caryophyllene	Sesquiterpene

Lemon (Citrus x limon)
NF-LEMD-20-A

[illegible]



Source



Lemon (Citrus x limon)
NF-LEMD-20-A



Essential Validation Services



Sample:

Client: | Nature's Fusions
Sample: | Lemon (Citrus x limon)
Batch # | MM4276903
CAS Number | 84929-31-7
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.



X 

Validated By:

Essential Validation Services

747 SW 2nd Ave, Gainesville, FL 32601

Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

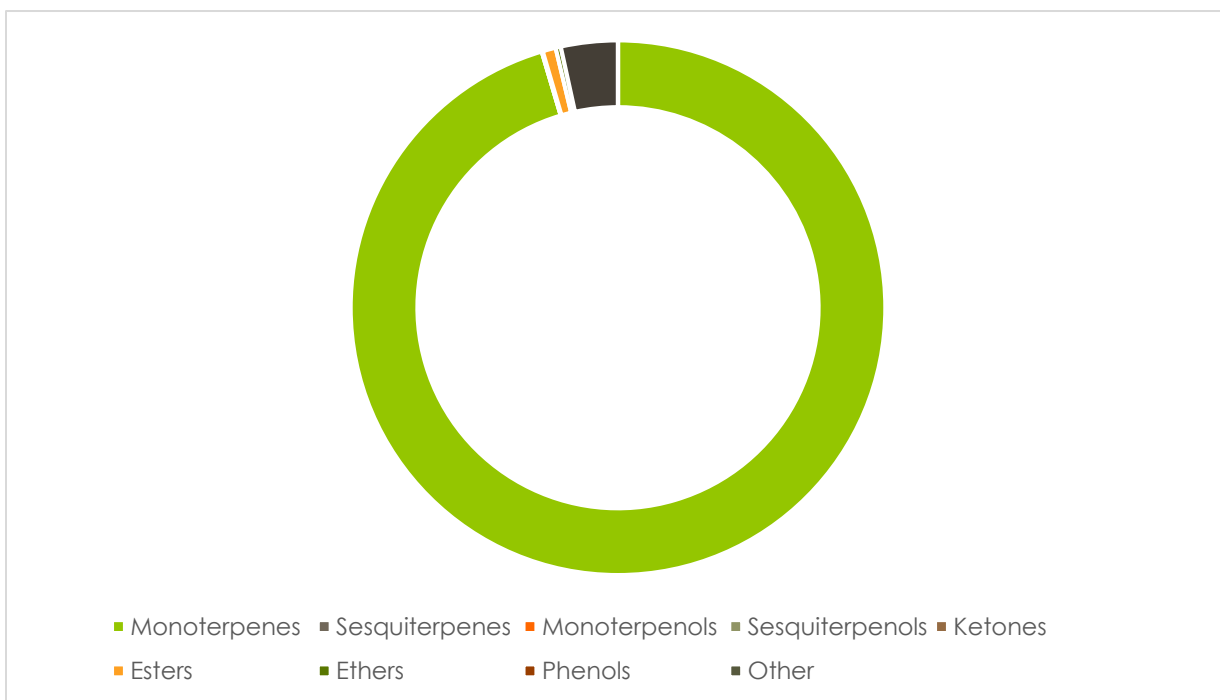
Summary of Analyses

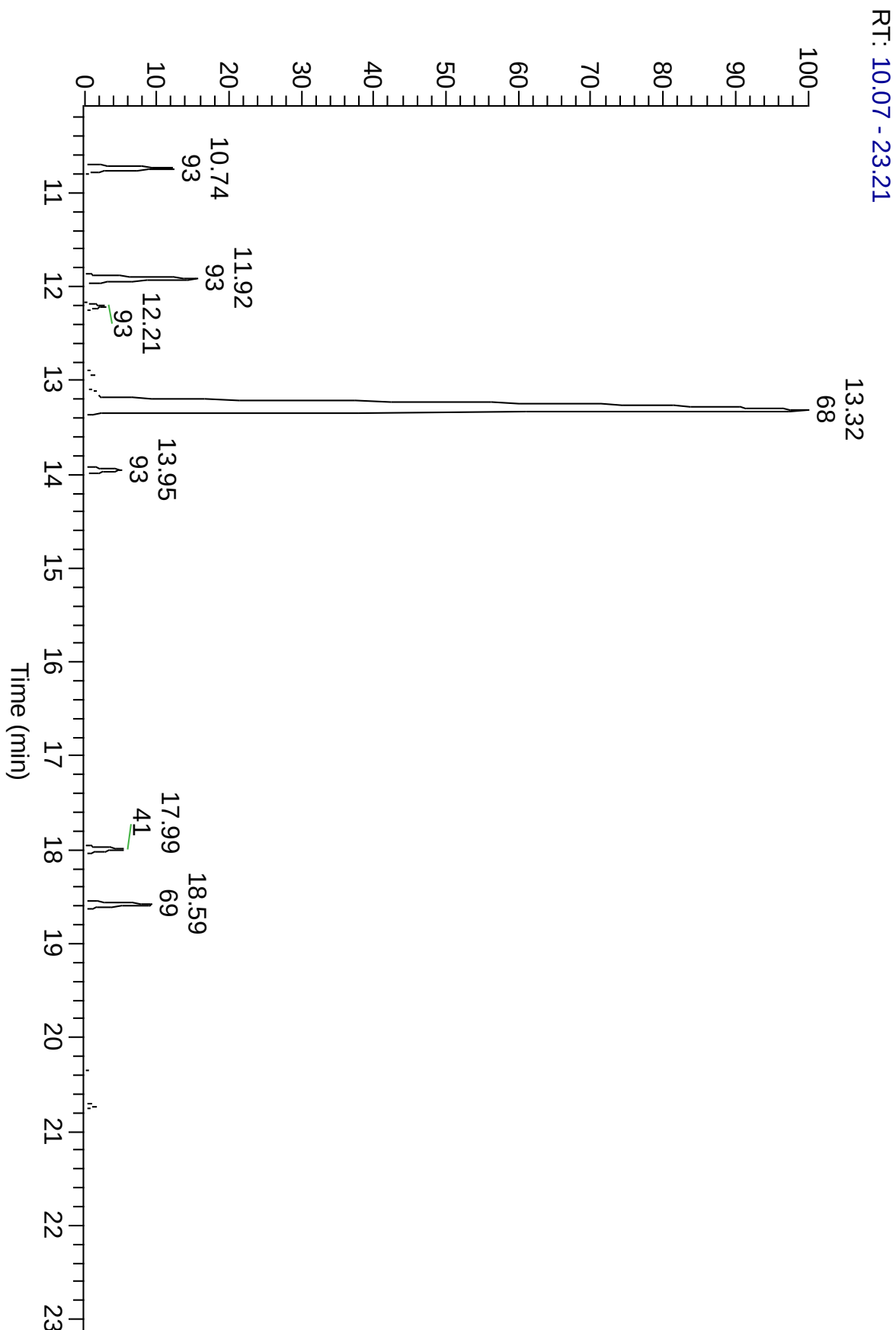
A fresh sample of Lemon (Citrus x limon) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.



Main Compounds	Percentages
Limonene	77.63%
beta-Pinene	5.75%
alpha-Pinene	4.55%
Geranial	3.15%
Citral	1.88%
gamma-Terpinene	1.67%
Myrcene	1.04%
para-Cymene	0.99%
alpha-Terpinene	0.63%
Geranyl acetate	0.50%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
94.90%	0.00%	0.06%	0.00%	0.00%
Esters	Ethers	Aldehydes	Phenols	Other
0.79%	0.31%	3.42%	0.00%	0.00%





[illegible]