

Client



Source



Oregano (*Origanum vulgare*)  
NF-OREG-20-A

Sample

Oregano (*Origanum vulgare*)  
Batch #:..... NF-OREG-20-A  
Type:..... Essential Oil  
CAS Number:... 84012-24-8

Nature's Fusions

Client



Website

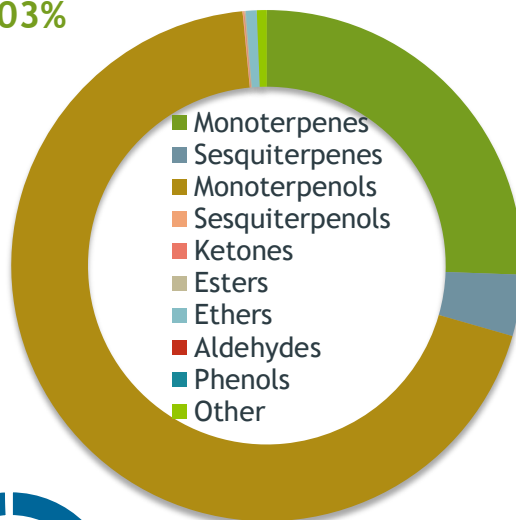


Primary

**60.12%** Carvacrol  
**9.74%** para-Cymene  
**8.64%** gamma-Terpinene

Monoterpenols

69.03%



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 Oregano (*Origanum vulgare*)

Internal Number: | EVS-4082



Essential Validation Services

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Gainesville, FL 32601

317.361.5044 |  
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Monoterpenes	25.57%	25.57%
Sesquiterpenes		3.88%
Monoterpenols	69.03%	69.03%
Sesquiterpenols		0.08%
Ketones		0.04%
Esters		0.08%
Ethers		0.69%
Aldehydes		0.00%
Phenols		0.00%
Other		0.63%

Client


 Nature's FUSIONS  
ESSENTIAL OILS

Source

Oregano (*Origanum vulgare*)

NF-OREG-20-A

Total Percentage		99.43%		
Number	RT	Area %	Compound Name	Chemical Family
1	8.02	0.56%	alpha-Thujene	Monoterpene
2	8.27	1.81%	alpha-Pinene	Monoterpene
3	8.89	0.58%	Camphene	Monoterpene
4	10.00	0.08%	beta-Pinene	Monoterpene
5	10.22	0.06%	1-Octen-3-ol	Aliphatic Alcohol
6	10.59	1.91%	Myrcene	Monoterpene
7	11.13	0.03%	Pseudolimonene	Monoterpene
8	11.23	0.12%	alpha-Phellandrene	Monoterpene
9	11.34	0.05%	delta-3-Carene	Monoterpene
10	11.71	1.71%	alpha-Terpinene	Monoterpene
11	12.06	9.74%	para-Cymene	Monoterpene
12	12.25	0.19%	Limonene	Monoterpene
13	12.36	0.30%	1,8-Cineole	Monoterpene Ether
14	12.63	0.01%	(Z)-beta-Ocimene	Monoterpene
15	13.09	0.03%	(E)-beta-Ocimene	Monoterpene
16	13.59	8.64%	gamma-Terpinene	Monoterpene
17	14.10	0.08%	trans-Sabinene hydrate	Monoterpenol
18	14.79	0.09%	Isoterpinolene	Monoterpene
19	14.99	0.02%	para-Cymenene	Monoterpene
20	15.53	2.66%	Linalool	Monoterpenol
21	18.73	0.22%	Borneol	Monoterpenol
22	19.15	1.79%	Terpinen-4-ol	Monoterpenol
23	19.94	0.08%	alpha-Terpineol	Monoterpenol
24	21.45	0.06%	Methyl thymol	Monoterpene Ether
25	22.24	0.04%	Carvone	Monoterpene Ketone
26	24.29	4.08%	Thymol	Monoterpenol
27	24.87	60.12%	Carvacrol	Monoterpenol
28	27.40	0.06%	Carvacryl acetate	Monoterpene Ester
29	28.04	0.02%	Geranyl acetate	Monoterpene Ester
30	29.61	2.88%	beta-Caryophyllene	Sesquiterpene
31	30.38	0.08%	Aromadendrene	Sesquiterpene
32	31.07	0.19%	alpha-Humulene	Sesquiterpene
33	32.41	0.01%	beta-Guaiene	Sesquiterpene
34	32.56	0.07%	Viridiflorene	Sesquiterpene
35	33.32	0.59%	beta-Bisabolene	Sesquiterpene

ESSENTIAL VALIDATION SERVICES | 747 SW 2<sup>ND</sup> 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



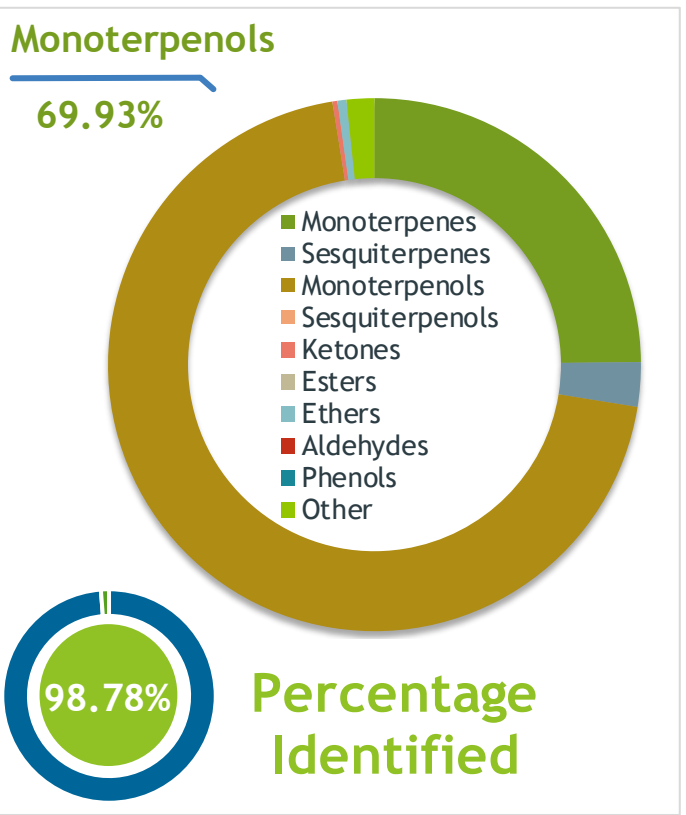


**Client** Nature's FUSIONS ESSENTIAL OILS **Source**



Oregano (*Origanum vulgare*)  
NF-OREG-19-A

**Sample** Oregano (*Origanum vulgare*)  
Batch #:..... NF-OREG-19-A  
Type:..... Essential Oil  
CAS Number:... 84012-24-8  
Nature's Fusions



**Client** Nature's FUSIONS ESSENTIAL OILS **Website**



**Primary**

**61.98%** Carvacrol  
**9.54%** para-Cymene  
**7.84%** gamma-Terpinene

**Result**



**Conclusion**

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Oregano (*Origanum vulgare*)

Internal Number: | EVS-2906



**Essential Validation Services**

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adam@essentialvalidationservices.com



Monoterpenes	24.85%	24.85%
Sesquiterpenes	2.69%	2.69%
Monoterpenols	69.93%	69.93%
Sesquiterpenols	0.00%	0.00%
Ketones	0.30%	0.30%
Esters	0.00%	0.00%
Ethers	0.55%	0.55%
Aldehydes	0.00%	0.00%
Phenols	0.00%	0.00%
Other	1.68%	1.68%

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Client


**Nature's FUSIONS**  
 ESSENTIAL OILS

Source



*Oregano (Origanum vulgare)*  
 NF-OREG-19-A

Total Percentage		98.78%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	12.61	1.45%	alpha-Thujene	927.80	Monoterpene
2	12.89	1.13%	alpha-Pinene	936.10	Monoterpene
3	13.51	0.10%	Camphene	950.30	Monoterpene
4	14.70	0.09%	beta-Pinene	974.00	Monoterpene
5	14.79	0.41%	1-Octen-3-ol	980.00	Aliphatic Alcohol
6	15.09	0.17%	Octan-3-one	981.00	Aliphatic Ketone
7	15.29	1.97%	Myrcene	989.20	Monoterpene
8	15.48	0.05%	3-Octanol	992.00	Aliphatic Alcohol
9	15.85	0.20%	alpha-Phellandrene	1002.00	Monoterpene
10	16.11	0.05%	delta-3-Carene	1008.00	Monoterpene
11	16.37	1.91%	alpha-Terpinene	1014.00	Monoterpene
12	16.72	9.54%	para-Cymene	1024.30	Monoterpene
13	16.90	0.42%	Limonene	1029.50	Monoterpene
14	17.01	0.05%	1,8-Cineole	1031.80	Monoterpene Ether
15	17.24	0.01%	(Z)-beta-Ocimene	1037.80	Monoterpene
16	17.69	0.03%	(E)-beta-Ocimene	1047.70	Monoterpene
17	18.16	7.84%	gamma-Terpinene	1054.00	Monoterpene
18	18.48	0.17%	trans-Sabinene hydrate	1072.00	Monoterpenol
19	19.35	0.11%	Terpinolene	1092.10	Monoterpene
20	19.75	0.15%	Linalool	1099.00	Monoterpenol
21	22.43	0.26%	Borneol	1168.71	Monoterpenol
22	22.84	0.99%	Terpinen-4-ol	1180.57	Monoterpenol
23	23.34	0.03%	para-Cymen-8-ol	1185.25	Monoterpenol
24	23.49	0.13%	alpha-Terpineol	1191.71	Monoterpenol
25	23.72	0.06%	cis-Dihydrocarvone	1197.57	Monoterpene Ketone
26	25.21	0.03%	Pulegone	1244.43	Monoterpene Ketone
27	25.56	0.04%	Carvone	1248.14	Monoterpene Ketone
28	26.90	6.22%	Thymol	1288.15	Monoterpenol
29	27.48	61.98%	Carvacrol	1304.40	Monoterpenol
30	31.39	2.18%	beta-Caryophyllene	1427.14	Sesquiterpene
31	32.46	0.15%	alpha-Humulene	1461.43	Sesquiterpene
32	33.99	0.33%	beta-Bisabolene	1509.86	Sesquiterpene
33	34.50	0.03%	delta-Cadinene	1524.14	Sesquiterpene
34	36.41	0.48%	Caryophyllene oxide	1594.86	Sesquiterpene Ether
35	37.17	0.02%	Humulene epoxide II	1606.43	Sesquiterpene Ether

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## *Essential Validation Services*





### Sample:

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Client: | Nature's Fusions  
Sample: | Oregano (*Origanum vulgare*)  
Batch # | 11306-A03  
CAS Number | 8007-11-2  
Type: | Essential Oil

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### 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](mailto:Adam@essentialvalidationservices.com)

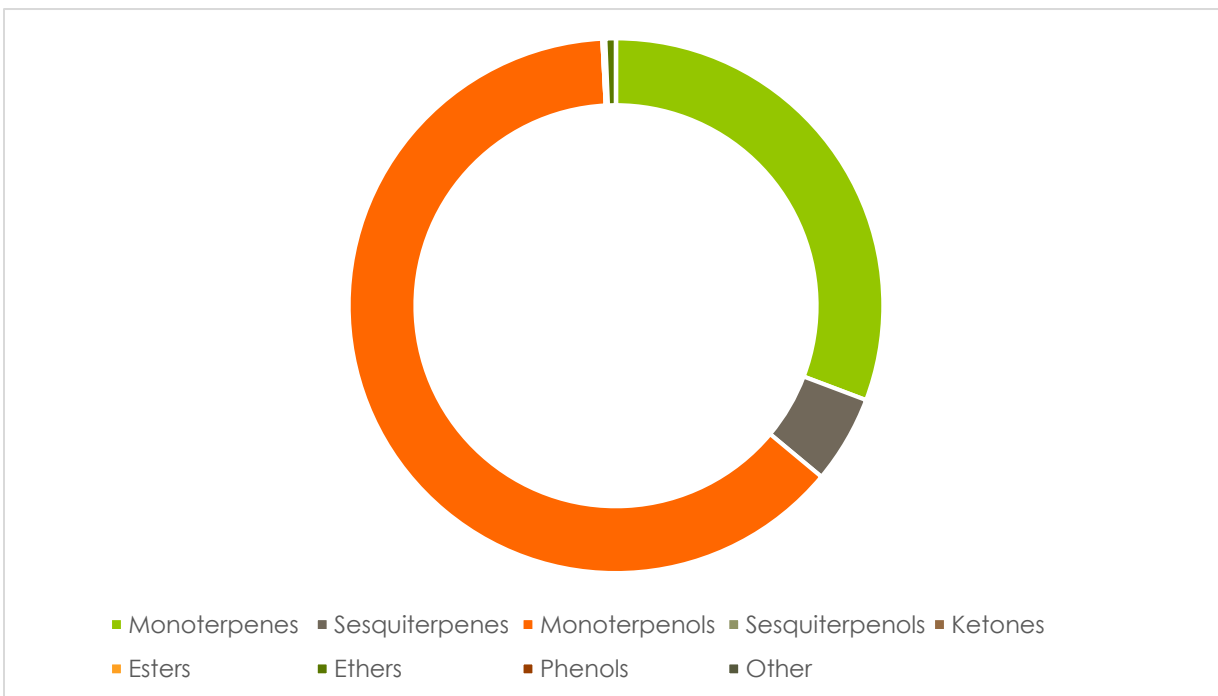
### Summary of Analyses

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A fresh sample of Oregano (*Origanum vulgare*) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.

Main Compounds	Percentages
Carvacrol	51.98%
para-Cymene	14.33%
gamma-Terpinene	8.54%
Thymol	6.57%
beta-Caryophyllene	4.70%
alpha-Terpinene	2.28%
Myrcene	1.85%
Linalool	1.78%
alpha-Pinene	1.56%
Terpinen-4-ol	1.18%
alpha-Thujene	0.76%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
30.46%	5.26%	62.55%	0.00%	0.18%
Esters	Ethers	Aldehydes	Phenols	Other
0.00%	0.63%	0.00%	0.00%	0.00%





RT: 10.15 - 25.11

