

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Basil (*Ocimum basilicum*)
NF-BASI-19-B

Sample

Basil (*Ocimum basilicum*)

Batch #:..... NF-BASI-19-B

Type:..... Essential Oil

CAS Number:.... 8015-73-4

Nature's Fusions

Client

Nature's FUSIONS
ESSENTIAL OILS

Website

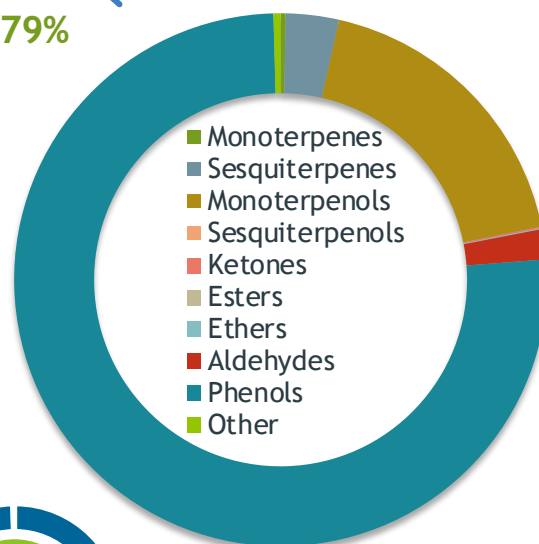


Primary

75.79%Methyl chavicol18.13%Linalool1.54%trans-gamma-Bisabolene

Phenols

75.79%

Percentage
Identified

Result

APPROVED

Conclusion

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

Internal Number: | EVS-2957



Essential Validation Services

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

317.361.5044 |

<https://essentialvalidation.com/>

adam@essentialvalidation.com

Monoterpenes	0.31%
Sesquiterpenes	3.22%
Monoterpenols	18.26%
Sesquiterpenols	0.00%
Ketones	0.10%
Esters	0.00%
Ethers	0.06%
Aldehydes	1.83%
Phenols	75.79%
Other	0.43%

Basil (*Ocimum basilicum*)
NF-BASI-19-B

[illegible]



Source



NF-BASI-19-B

[illegible]

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Basil (*Ocimum Basilicum*)
NF-BASL-19-A

Sample

Basil (*Ocimum Basilicum*)

Batch #:..... NF-BASL-19-A

Type:..... Essential Oil

CAS Number:... 91845-35-1

Nature's Fusions

Client

Nature's FUSIONS
ESSENTIAL OILS

Website

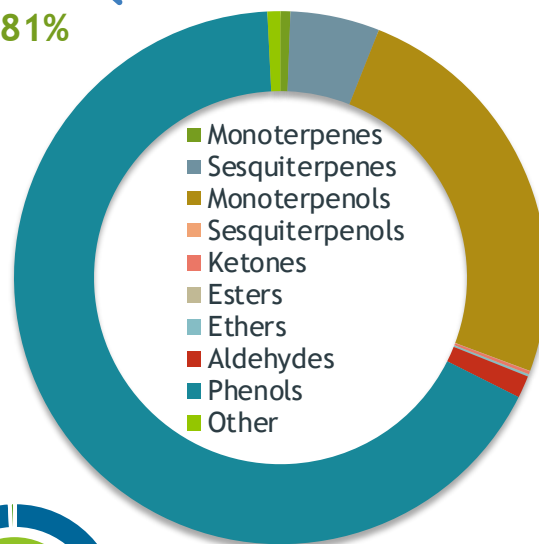


Primary

66.69%Methyl chavicol23.75%Linalool2.49%trans-gamma-Bisabolene

Phenols

66.81%

Percentage
Identified

Result

APPROVED

Conclusion

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

Internal Number: | EVS-2896



Essential Validation Services

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Monoterpenes	0.60%
Sesquiterpenes	5.42%
Monoterpenols	24.67%
Sesquiterpenols	0.04%
Ketones	0.17%
Esters	0.03%
Ethers	0.12%
Aldehydes	1.35%
Phenols	66.81%
Other	0.79%

Client


Nature's FUSIONS
 ESSENTIAL OILS

Source



Basil (Ocimum Basilicum)
 NF-BASL-19-A

Total Percentage		99.21%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	12.89	0.07%	alpha-Pinene	936.10	Monoterpene
2	14.69	0.05%	Sabinene	973.00	Monoterpene
3	15.11	0.11%	6-Methyl-5-hepten-2-one	982.00	Aliphatic Ketone
4	15.29	0.07%	Myrcene	989.20	Monoterpene
5	15.78	0.02%	alpha-Phellandrene	1002.00	Monoterpene
6	15.98	0.01%	(Z)-3-Hexenyl acetate	1004.00	Aliphatic Ester
7	16.69	0.01%	para-Cymene	1024.30	Monoterpene
8	16.86	0.07%	Limonene	1029.50	Monoterpene
9	16.98	0.12%	1,8-Cineole	1031.80	Monoterpene Ether
10	17.66	0.24%	(E)-beta-Ocimene	1047.70	Monoterpene
11	18.59	0.02%	trans-Sabinene hydrate	1072.00	Monoterpenol
12	18.70	0.04%	cis-Linalool oxide (5) (furanoid)	1075.10	Monoterpenol
13	19.34	0.07%	Terpinolene	1092.10	Monoterpene
14	19.84	23.75%	Linalool	1099.00	Monoterpenol
15	21.93	0.06%	Menthone	1155.00	Monoterpene Ketone
16	22.35	0.05%	cis-Chrysanthanol	1162.90	Monoterpenol
17	22.65	0.54%	Menthol	1177.40	Monoterpenol
18	23.38	0.17%	alpha-Terpineol	1191.71	Monoterpenol
19	23.80	66.69%	Methyl chavicol	1193.40	Phenylpropanoid
20	24.64	0.03%	Nerol	1230.67	Monoterpenol
21	25.10	0.57%	Citral	1244.12	Monoterpene Aldehyde
22	25.54	0.07%	Geraniol	1255.29	Monoterpenol
23	26.12	0.78%	Geranial	1272.00	Monoterpene Aldehyde
24	26.73	0.05%	(E)-Anethole	1283.00	Phenylpropanoid
25	26.99	0.02%	Menthyl acetate	1297.00	Monoterpene Ester
26	28.55	0.03%	delta-Elemene	1335.83	Sesquiterpene
27	29.16	0.04%	Eugenol	1365.89	Phenylpropanoid
28	29.90	0.03%	alpha-Copaene	1379.00	Sesquiterpene
29	30.38	0.05%	beta-Elemene	1389.20	Sesquiterpene
30	30.62	0.03%	Methyl Eugenol	1407.27	Phenylpropanoid
31	31.37	0.68%	beta-Caryophyllene	1427.14	Sesquiterpene
32	31.76	0.74%	trans-alpha-Bergamotene	1435.00	Sesquiterpene
33	31.96	0.07%	(Z)-beta-Farnesene	1453.40	Sesquiterpene
34	32.29	0.40%	(E)-beta-Farnesene	1456.29	Sesquiterpene
35	32.45	0.34%	alpha-Humulene	1461.43	Sesquiterpene

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Basil (Ocimum Basilicum)

NF-BASL-19-A

[illegible]



Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Basil,Sweet (Ocimum basilicum)
Batch # | 11003-A25
Cas Number | 8015-73-4
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

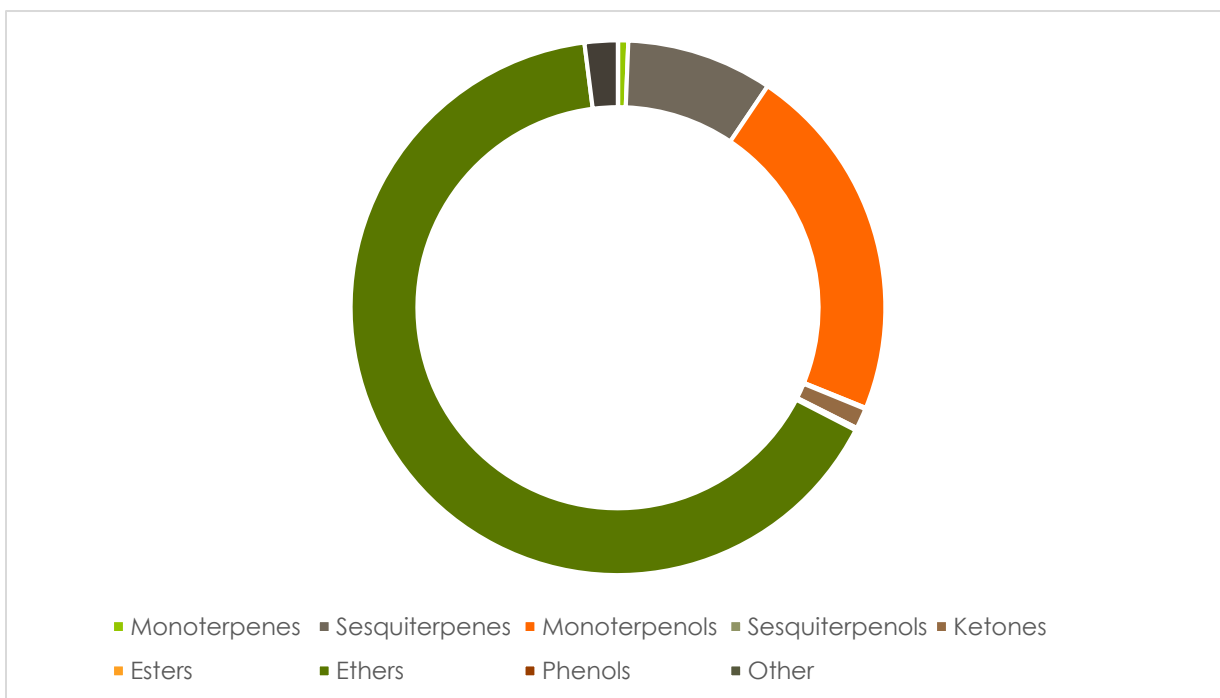
Summary of Analyses

A fresh sample of Basil, Sweet (Ocimum basilicum) Essential Oil (10 uL in .5to.5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.



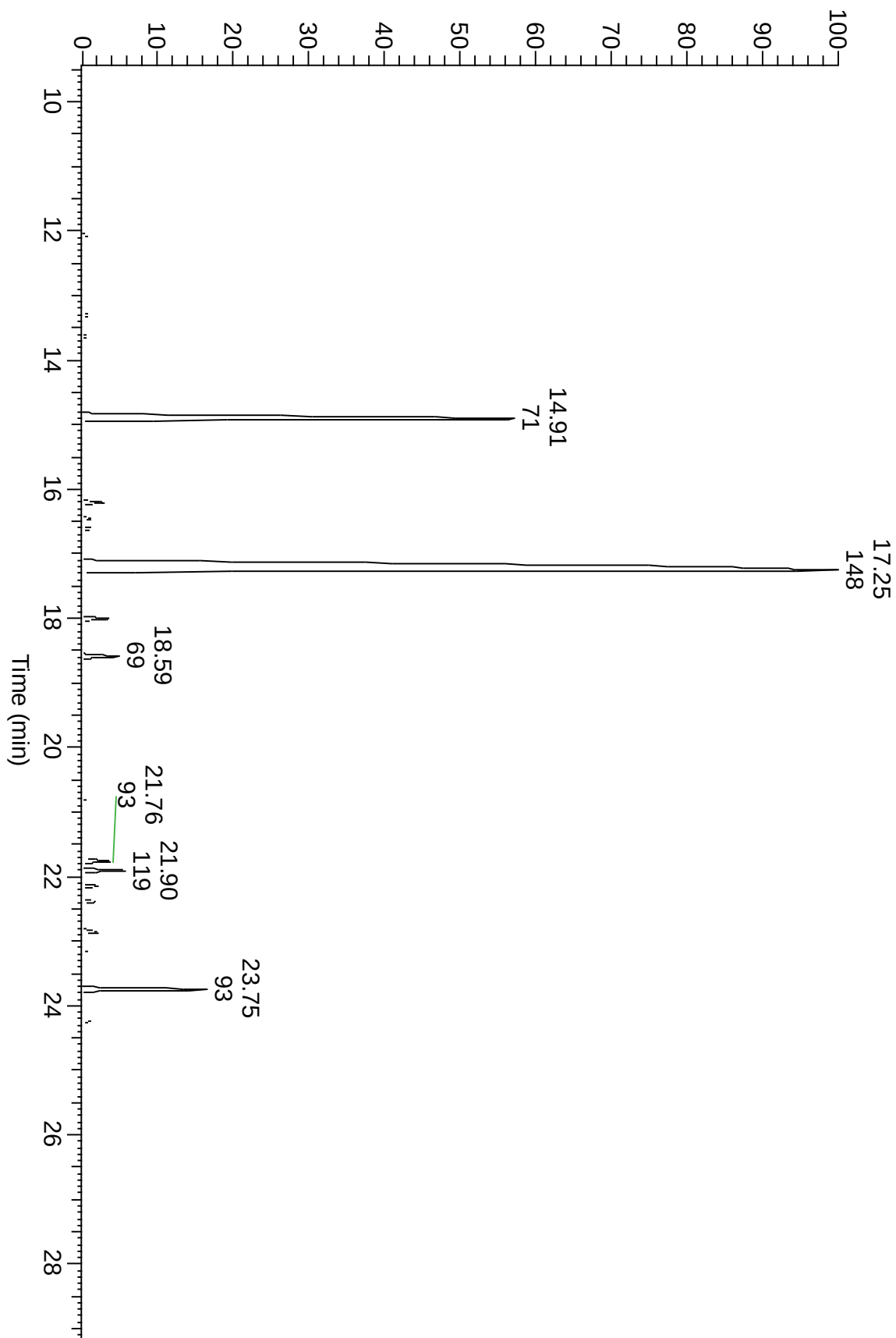
Main Compounds	Percentages
Methyl chavicol	64.39%
Linalool	20.55%
trans-Cadina-1(6),4-dien	3.93%
trans-alpha-Bergamotene	1.31%
Geranial	1.16%
beta-Caryophyllene	1.06%
Neral	0.83%
Menthone	0.69%
Menthone	0.69%
(Z)-beta-Farnesene	0.50%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
0.61%	8.76%	21.47%	0.07%	1.23%
Esters	Ethers	Aldehydes	Phenols	Other
0.15%	64.83%	1.99%	0.09%	0.00%





RT: 9.42 - 29.41





Total Percentage	99.20%				
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	10.72	0.07%	alpha-Pinene	936.10	Monoterpenes
2	11.79	0.03%	Sabinene	973.00	Monoterpenes
3	11.90	0.09%	beta-Pinene	977.70	Monoterpenes
4	12.07	0.19%	6-Methyl-5-hepten-2-one	985.90	Ketones
5	12.19	0.10%	Myrcene	989.20	Monoterpenes
6	12.48	0.07%	Octanol	1066.00	Monoterpenols
7	12.57	0.04%	(Z)-3-Hexenyl Acetate	1009.00	Esters
8	13.09	0.03%	para-Cymene	1024.30	Monoterpenes
9	13.21	0.09%	Limonene	1029.50	Monoterpenes
10	13.30	0.26%	1,8-Cineole	1031.80	Ethers
11	13.63	0.20%	(E)-beta-Ocimene	1047.70	Monoterpenes
12	14.14	0.05%	1-Octanol	1066.00	Monoterpenols
13	14.28	0.04%	cis-Linalool oxide (5) (furanoid)	1075.10	Monoterpenols
14	14.66	0.07%	trans-Linalool oxide (5) (furanoid)	1092.20	Monoterpenols
15	14.91	20.55%	Linalool	1099.00	Monoterpenols
16	16.09	0.04%	Camphor	1153.86	Ketones
17	16.20	0.69%	Menthone	1159.43	Ketones
18	16.45	0.31%	Isomenthone	1164.33	Ketones
19	16.61	0.33%	Menthol	1177.40	Monoterpenols
20	17.04	0.14%	alpha-Terpineol	1191.71	Monoterpenols
21	17.25	64.39%	Methyl chavicol	1202.00	Ethers
22	17.72	0.11%	Nerol	1230.67	Monoterpenols
23	18.00	0.83%	Neral	1246.57	Aldehydes
24	18.22	0.11%	Geraniol	1258.29	Monoterpenols
25	18.59	1.16%	Geranial	1275.57	Aldehydes
26	18.97	0.07%	Anethole	1288.33	Ethers
27	19.11	0.03%	Menthyl acetate	1297.00	Esters
28	20.37	0.09%	Eugenol	1365.89	Phenols
29	20.79	0.09%	alpha-Copaene	1379.00	Sesquiterpenes
30	20.87	0.08%	Geranyl acetate	1384.71	Esters
31	21.01	0.04%	beta-Elementene	1388.30	Sesquiterpenes
32	21.12	0.16%	beta-Bourbonene	1388.70	Sesquiterpenes
33	21.54	0.08%	alpha-Gurjunene	1412.00	Sesquiterpenes
34	21.76	1.06%	beta-Caryophyllene	1427.14	Sesquiterpenes
35	21.90	1.31%	trans-alpha-Bergamotene	1435.00	Sesquiterpenes
36	22.15	0.50%	(Z)-beta-Farnesene	1453.40	Sesquiterpenes
37	22.39	0.44%	alpha-Humulene	1461.43	Sesquiterpenes
38	22.86	0.69%	Germacrene D	1484.71	Sesquiterpenes
39	22.93	0.04%	beta-Selinene	1487.57	Sesquiterpenes
40	22.98	0.03%	Bicyclogermacrene	1495.71	Sesquiterpenes
41	23.18	0.29%	beta-Bisabolene	1509.86	Sesquiterpenes
42	23.52	0.10%	delta-Cadinene	1524.14	Sesquiterpenes



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