

Vitex *Vitex agnus castus*

Batch No. CR-59136

Croatia

Monoterpenes 39.14%

sabinene	20.53
α-pinene	8.17
β-pinene	4.33
myrcene	2.43
γ terpinene	1.04
para cymene	0.86
(E)-β-ocimene	0.58
α thujene	0.35
α terpinene	0.31
α phellandrene	0.21
terpinolene	0.19
pseudolimonene	0.07
(Z)-β-ocimene	0.05
camphene	0.01
hashishene	0.01

Monoterpenols 6.1%

α terpineol	2.66
terpinen-4-ol	2.5
linalool	0.29
delta-terpineol	0.21
trans sabinene hydrate	0.17
citronellol	0.07
cis-para-menth-2-en-1-ol	0.05
trans-pinocarveol	0.03
trans-para-menth-2-en-1-ol	0.03
trans-verbenol	0.03
cis-piperitol	0.03
para-cymen-8-ol	0.02
nerol	0.01

Esters 7.41%

α terpinyl acetate	6.78
citronellyl acetate	0.29
bornyl acetate	0.09
delta-terpinyl acetate	0.09
isoamyl isovalerate	0.04
linalyl acetate	0.03
(Z)-3-hexenyl benzoate	0.03
geranyl acetate	0.02
octan-3-yl acetate	0.02
isoamyl benzoate	0.02

Ethers 28.93%

1,8 cineole co-eluting Limonene	28.6
caryophyllene oxide	0.33

Ketones 0.04%

cryptone	0.03
6-methyl-5-hepten-2-one	0.01

Other 0.44%

Cembrene	0.20
manool	0.11
manool oxide	0.07
abietatriene	0.06

Sesquiterpenenes 15.66%

(E)-β-farnesene	4.52
β bourbonene	3.38
β-caryophyllene	3.38
bicyclgermacrene	1.19
allo-aromadendrene	0.77
delta elemene	0.67
α gurjunene + co-eluting (Z)-α bergamotene	0.40
(Z)-β-farnesene	0.31
germacrene d	0.22
(E)-α-bergamotene	0.15
viridiflorene	0.08
β-bisbolene	0.07
nootkatene	0.06
β elemene	0.06
β gurjunene	0.06
δ cadinene	0.06
(E,E) α farnesene	0.05
aromadendrene	0.04
β sesquiphellandrene	0.04
β selinene	0.03
α guaiene	0.03
ar-cucumene	0.03
γ muurolene	0.03
α muurolene	0.02
α copaene	0.01

Sesquiterpenols 1.72%

spathulenol	0.56
isopathulenol	0.45
ledol	0.33
palustrol	0.12
τ cadinol	0.09
viridiflorol	0.04
sesquicineole	0.04
(E) nerolidol	0.04
α bisabolol	0.02
alohimachalol	0.02
α cadinol	0.01

Client



Source



Vitex (Vitex agnus-castus)
CR-59136

Sample

Vitex (Vitex agnus-castus)
Batch #:..... CR-59136
Type:..... Essential Oil
CAS Number:.....
Nature's Gift

Client



Website

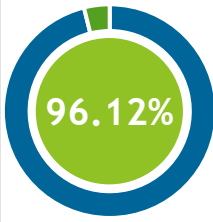
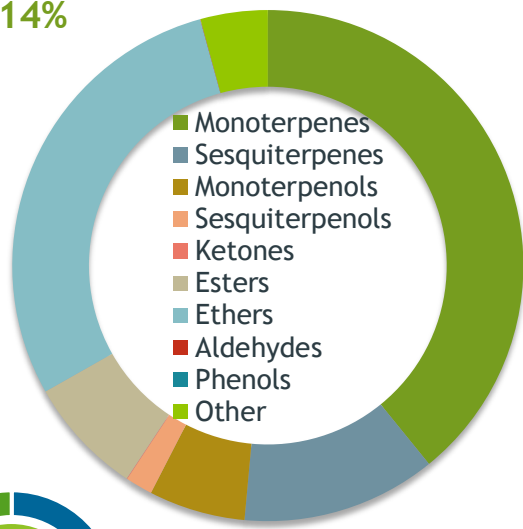


Primary

28.60% | **1,8-Cineole (Co-Eluting)**
20.53 | **Sabinene**
8.17% | **alpha-Pinene**

Monoterpenes

39.14%



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 Vitex (Vitex agnus-castus)

Internal Number: | EVS-4170



Essential Validation Services

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

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

Alan Christen

Monoterpenes	39.14%	39.14%
Sesquiterpenes	12.32%	12.32%
Monoterpenols	6.1	6.10%
Sesquiterpenols		1.72%
Ketones		0.04%
Esters	7.48	7.48%
Ethers	28.93%	28.93
Aldehydes		0.02%
Phenols		0.00%
Other	4.	4.25%

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

Client



Source

Vitex (*Vitex agnus-castus*)

CR-59136

Total Percentage		96.12%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.80	0.01%	Hashishene	Monoterpene
2	8.05	0.35%	alpha-Thujene	Monoterpene
3	8.32	8.17%	alpha-Pinene	Monoterpene
4	8.53	0.01%	Camphene	Monoterpene
5	9.92	20.53%	Sabinene	Monoterpene
6	10.06	4.33%	beta-Pinene	Monoterpene
7	10.43	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
8	10.62	2.43%	Myrcene	Monoterpene
9	11.16	0.07%	Pseudolimonene	Monoterpene
10	11.27	0.21%	alpha-Phellandrene	Monoterpene
11	11.74	0.31%	alpha-Terpinene	Monoterpene
12	12.09	0.86%	para-Cymene	Monoterpene
13	12.46	28.60%	1,8-Cineole	Monoterpene Ether
14	12.47	Co-Eluting	Limonene	Monoterpene
15	12.67	0.05%	(Z)-beta-Ocimene	Monoterpene
16	13.13	0.58%	(E)-beta-Ocimene	Monoterpene
17	13.60	1.04%	gamma-Terpinene	Monoterpene
18	14.13	0.17%	trans-Sabinene hydrate	Monoterpenol
19	14.83	0.19%	Terpinolene	Monoterpene
20	15.55	0.29%	Linalool	Monoterpenol
21	15.77	0.02%	Nonanal	Aliphatic Aldehyde
22	15.87	0.04%	Isoamyl isovalerate	Aliphatic Ester
23	16.51	0.02%	Octan-3-yl acetate	Aliphatic Ester
24	16.60	0.05%	cis-para-Menth-2-en-1-ol	Monoterpenol
25	17.31	0.03%	trans-Pinocarveol	Monoterpenol
26	17.43	0.03%	trans-para-Menth-2-en-1-ol	Monoterpenol
27	17.57	0.03%	trans-Verbenol	Monoterpenol
28	18.71	0.21%	delta-Terpineol	Monoterpenol
29	19.18	2.50%	Terpinen-4-ol	Monoterpenol
30	19.42	0.03%	Cryptone	Monoterpene Ketone
31	19.51	0.02%	para-Cymen-8-ol	Monoterpenol
32	19.88	2.66%	alpha-Terpineol	Monoterpenol
33	20.51	0.03%	cis-Piperitol	Monoterpenol
34	21.28	0.01%	Nerol	Monoterpenol
35	21.42	0.07%	Citronellol	Monoterpenol

Client



Source

*Vitex (Vitex agnus-castus)*

CR-59136

Number	RT	Area %	Compound Name	Chemical Family
36	23.71	0.03%	Linalyl acetate	Monoterpenol
37	23.88	0.09%	Bornyl acetate	Monoterpene Ester
38	25.19	0.09%	delta-Terpinyl acetate	Monoterpene Ester
39	25.99	0.67%	delta-Elemene	Sesquiterpene
40	26.68	6.78%	alpha-Terpinyl acetate	Monoterpene Ester
41	26.85	0.29%	Citronellyl acetate	Monoterpene Ester
42	27.85	0.01%	alpha-Copaene	Sesquiterpene
43	28.07	0.02%	Geranyl acetate	Monoterpene Ester
44	28.15	0.04%	beta-Bourbonene	Sesquiterpene
45	28.45	0.06%	beta-Elemene	Sesquiterpene
46	29.15	0.40%	alpha-Gurjunene	Sesquiterpene
47	29.45	Co-Eluting	cis-alpha-Bergamotene	Sesquiterpene
48	29.65	3.38%	beta-Caryophyllene	Sesquiterpene
49	30.08	0.06%	beta-Gurjunene	Sesquiterpene
50	30.30	0.15%	trans-alpha-Bergamotene	Sesquiterpene
51	30.42	0.04%	Aromadendrene	Sesquiterpene
52	30.47	0.02%	Isoamyl benzoate	Monoterpene Ester
53	30.60	0.31%	(Z)-beta-Farnesene	Sesquiterpene
54	30.72	0.03%	alpha-Guaiene	Sesquiterpene
55	31.20	4.52%	(E)-beta-Farnesene	Sesquiterpene
56	31.29	0.77%	allo-Aromadendrene	Sesquiterpene
57	31.96	0.03%	gamma-Murolene	Sesquiterpene
58	32.17	0.22%	Germacrene D	Sesquiterpene
59	32.27	0.03%	ar-Curcumene	Sesquiterpene
60	32.47	0.03%	beta-Selinene	Sesquiterpene
61	32.60	0.08%	Viridiflorene	Sesquiterpene
62	32.77	1.19%	Bicyclogermacrene	Sesquiterpene
63	32.93	0.02%	alpha-Murolene	Sesquiterpene
64	33.09	0.06%	Nootkatene	Sesquiterpene
65	33.27	0.05%	(E,E)-alpha-Farnesene	Sesquiterpene
66	33.35	0.07%	beta-Bisabolene	Sesquiterpene
67	33.52	0.04%	Sesquicineole	Sesquiterpenol
68	33.72	0.06%	delta-Cadinene	Sesquiterpene
69	33.96	0.04%	beta-Sesquiphellandrene	Sesquiterpene
70	35.46	0.04%	(E)-Nerolidol	Sesquiterpenol
71	35.65	0.12%	Palustrol	Sesquiterpenol

