

Vitex *Vitex agnus castus*

Batch No. HR-59199
Croatia

Monoterpenes	37.22%	Esters	3.7%	Sesquiterpenenes	32.24%
sabinene	14.50	α terpinyl acetate	3.16	(E)- β -farnesene	10.65
α -pinene	9.43	citronellyl acetate	0.23	β caryophyllene	10.41
limonene	5.45	bornyl acetate	0.09	bicyclgermacrene	3.04
myrcene	2.11	delta-terpinyl acetate	0.07	δ elemene	1.68
β -pinene	1.34	linalyl acetate	0.07	allo-aromadendrene	1.31
γ terpinene	1.11	octan-3-yl acetate	0.05	α gurjunene	1.12
α terpinene	0.71	isoamyl acetate	0.03	β cedrene	0.87
para cymene	0.64			(Z)- α -bergamotene	0.56
α thujene	0.59			α humulene	0.55
α phellandrene	0.45	Ethers	16.59%	germacrene d	0.29
(E)- β -ocimene	0.42	1,8 cineole	16.25	aromadendrene	0.27
terpinolene	0.31	caryophyllene oxide	0.34	viridiflorene	0.21
camphene	0.07			β bisbolene	0.21
pseudolimonene	0.04			2-epi- α funebrene	0.18
hashishene	0.02	Ketones	0.28%	β gurjunene	0.12
para-cymenene	0.02	carvone	0.18	β sesquiphellandrene	0.12
thuja-2,4(10)-diene	0.01	camphor	0.09	β cadinene	0.11
		6-methyl-5-hepten-2-one	0.01	nootkatene	0.11
				α guaiane	0.09
Monoterpenols	5.71%			α acoradiene	0.07
α terpineol	2.06	Other	0.33%	β bourbonene	0.06
terpinen-4-ol	1.6	cembrene	0.16	β guaiane	0.06
linalool	0.46	manool	0.07	γ gurjunene	0.05
delta-terpineol	0.43	3-methylpentanol	0.03	longifolene	0.03
carvacrol	0.42	manool oxide	0.02	α muurolene	0.03
trans sabinene hydrate	0.21	4-methyl-pentanol	0.02	isolekene	0.02
ascaridole	0.19	1-octanol	0.02	α copaene	0.02
citronellol	0.12	octane	0.01		
cis-para-menth-2-en-1-ol	0.08	Aldehydes	0.15%	Sesquiterpenols	1.35%
trans-para-menth-2-en-1-ol	0.05	hexanal	0.02	spathulenol	0.40
trans-pinocarveol	0.04	nonanal	0.11	ledol	0.28
nerol	0.03	phellandral	0.02	τ cadinol	0.27
trans-piperitol	0.02			maaliol	0.13
				palustrol	0.11
				sesquiceneole	0.07
				globulol	0.05
Phenols	0.08%			(E) nerolidol	0.02
methyl eugenol	0.08			α bisabolol	0.02

Client



Source



Vitex Leaf and Berry (*Vitex agnus-castus*)
HR-59199

Sample

Vitex Leaf and Berry (*Vitex agnus-castus*)

Batch #:..... HR-59199

Type:..... Essential Oil

CAS Number:...

Nature's Gift

Client



Website



Primary

16.25%

1,8-Cineole

14.50%

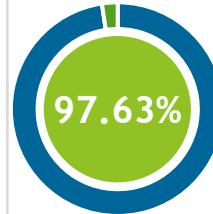
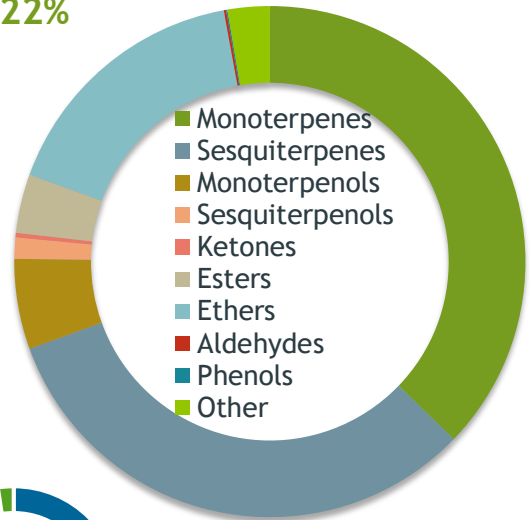
Sabinene

10.65%

(E)-beta-Farnesene

Monoterpenes

37.22%



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 Leaf and Berry (*Vitex agnus-castus*)

Internal Number: | EVS-4620



Essential Validation Services

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Alan Christen

Monoterpenes	37.22%	37.22%
Sesquiterpenes	32.24%	32.24%
Monoterpenols	5.71%	5.71%
Sesquiterpenols	1.35%	1.35%
Ketones	0.28%	0.28%
Esters	3.72%	3.72%
Ethers	16.59%	16.59%
Aldehydes	0.15%	0.15%
Phenols	0.08%	0.08%
Other	2.66%	2.66%

Client



Source



Vitex Leaf and Berry (Vitex agnus-castus)

HR-59199

Total Percentage		97.63%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.17	0.01%	Octane	Alkane
2	4.22	0.02%	Hexanal	Aliphatic Aldehyde
3	5.13	0.02%	4-methyl-Pentanol	
4	5.36	0.03%	3-Methylpentanol	Aliphatic Alcohol
5	6.25	0.03%	Isoamyl acetate	Aliphatic Ester
6	7.65	0.02%	Hashishene	Monoterpene
7	7.90	0.59%	alpha-Thujene	Monoterpene
8	8.16	9.43%	alpha-Pinene	Monoterpene
9	8.76	0.07%	Camphene	Monoterpene
10	8.93	0.01%	Thuja-2,4(10)-diene	Monoterpene
11	9.73	14.50%	Sabinene	Monoterpene
12	9.87	1.34%	beta-Pinene	Monoterpene
13	10.26	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
14	10.45	2.11%	Myrcene	Monoterpene
15	10.99	0.04%	Pseudolimonene	Monoterpene
16	11.09	0.45%	alpha-Phellandrene	Monoterpene
17	11.56	0.71%	alpha-Terpinene	Monoterpene
18	11.90	0.64%	para-Cymene	Monoterpene
19	12.13	5.45%	Limonene	Monoterpene
20	12.24	16.25%	1,8-Cineole	Monoterpene Ether
21	12.94	0.42%	(E)-beta-Ocimene	Monoterpene
22	13.41	1.11%	gamma-Terpinene	Monoterpene
23	13.93	0.21%	trans-Sabinene hydrate	Monoterpenol
24	14.08	0.02%	1-Octanol	Aliphatic Alcohol
25	14.63	0.31%	Terpinolene	Monoterpene
26	14.84	0.02%	para-Cymenene	Monoterpene
27	15.35	0.46%	Linalool	Monoterpenol
28	15.57	0.11%	Nonanal	Aliphatic Aldehyde
29	16.33	0.05%	Octan-3-yl acetate	Aliphatic Ester
30	16.39	0.08%	cis-para-Menth-2-en-1-ol	Monoterpenol
31	17.10	0.04%	trans-Pinocarveol	Monoterpenol
32	17.23	0.05%	trans-para-Menth-2-en-1-ol	Monoterpenol
33	17.35	0.09%	Camphor	Monoterpene Ketone
34	18.50	0.43%	delta-Terpineol	Monoterpenol
35	18.96	1.60%	Terpinen-4-ol	Monoterpenol

Client



Source



Vitex Leaf and Berry (Vitex agnus-castus)

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Number	RT	Area %	Compound Name	Chemical Family
36	19.653	2.06%	alpha-Terpineol	Monoterpenol
37	20.31	0.02%	trans-Piperitol	Monoterpenol
38	21.08	0.03%	Nerol	Monoterpenol
39	21.21	0.12%	Citronellol	Monoterpenol
40	21.83	0.18%	Carvone	Monoterpene Ketone
41	22.25	0.07%	Linalyl acetate	Monoterpene Ester
42	23.30	0.02%	Phellandral	Monoterpene Aldehyde
43	23.67	0.09%	Bornyl acetate	Monoterpene Ester
44	24.43	0.42%	Carvacrol	Monoterpenol
45	24.97	0.07%	delta-Terpinyl acetate	Monoterpene Ester
46	25.33	0.19%	Ascaridole	Monoterpenol
47	25.77	1.68%	delta-Elemene	Sesquiterpene
48	26.43	3.16%	alpha-Terpinyl acetate	Monoterpene Ester
49	26.65	0.23%	Citronellyl acetate	Monoterpene Ester
50	27.41	0.02%	Isolatedene	Sesquiterpene
51	27.63	0.02%	alpha-Copaene	Sesquiterpene
52	27.93	0.06%	beta-Bourbonene	Sesquiterpene
53	28.22	0.18%	2-epi-alpha-Funebrene	Sesquiterpene
54	28.77	0.08%	Methyl eugenol	Phenylpropanoid
55	28.93	1.12%	alpha-Gurjunene	Sesquiterpene
56	29.45	10.41%	beta-Caryophyllene	Sesquiterpene
57	29.73	0.03%	Longifolene	Sesquiterpene
58	29.86	0.12%	beta-Gurjunene	Sesquiterpene
59	30.08	0.56%	cis-alpha-Bergamotene	Sesquiterpene
60	30.19	0.27%	Aromadendrene	Sesquiterpene
61	30.39	0.87%	beta-Cedrene	Sesquiterpene
62	30.50	0.09%	alpha-Guaiene	Sesquiterpene
63	30.88	0.55%	alpha-Humulene	Sesquiterpene
64	31.00	10.65%	(E)-beta-Farnesene	Sesquiterpene
65	31.07	1.31%	allo-Aromadendrene	Sesquiterpene
66	31.62	0.05%	gamma-Gurjunene	Sesquiterpene
67	31.74	0.07%	alpha-Acoradiene	Sesquiterpene
68	31.94	0.29%	Germacrene D	Sesquiterpene
69	32.24	0.06%	beta-Guaiene	Sesquiterpene
70	32.38	0.21%	Viridiflorene	Sesquiterpene
71	32.54	3.04%	Bicyclogermacrene	Sesquiterpene

