



Sandalwood Santalum spicatum

Batch No. #AU-59057
 Australia

Sesquiterpenes	#REF!
7-epi-sesquithujene	0.20
α cedrene	0.35
α santalene	1.94
trans-α-bergamotene	0.62
epi-β santalene	1.20
sesquisabinene	0.20
β santalene	1.87
α acoradiene	0.23
γ curcumene	0.65
ar-curcumene	0.48
11-α-H-himachala-1,4-diene	0.26
β chamigrene	0.22
(Z) α bisabolene	0.03
β curcumene	1.70
sesquicineole	0.22
β sesquiphellandrene	0.29
(E) γ bisabolene	0.07
(E) α bisabolene	0.12
trans-cadina-1,4-diene	

Sesquiterpenols	77.71%
(Z)-α-santalol	22.72
(Z)-β-santalol	9.65
(Z)-nuciferol	9.05
α bisabolol	7.95
(E,Z) farnesol	6.78
(Z) β curcumen-12-ol	6.27
β-bisabolol	3.13
(Z)-epi-β-santalol	2.23
(E)-Nerolidol	2.07
(Z)-lanceol	1.96
β-eudesmol	1.20
(E)-α-santalol	0.84
(E,E) farnesol	0.80
epi β bisabolol	0.67
(Z) α-trans-bergamotol	0.57
cedr-8-en-13-ol	0.57
epi α bisabolol	0.54
(E) nuciferol	0.27
(Z) γ curcumen-12-ol	0.26
α-acoreno	0.18
β-acoreno	0.14
guaiol	0.12
10-epi-β-acoradiene	0.10

Esters	0.04%
(Z)-α-santalyl acetate	0.04
(E,E) farnesyl acetate	0.03

Ethers	#REF!
dendrolasin	1.23
humulene epoxide II	0.24

Ketones	#REF!
santalone	0.02

Other	3.4%
unknown	3.13
santene	0.22
furfural	0.03
Funebrene <2 epi α>	0.02

Raw Material: Sandalwood
 INCI Name: Santalum spicatum
 Production Method: Steam Dist., heart wood

Client



Source



Sandalwood (*Santalum spicatum*)
AU-59057

Sample

Sandalwood (*Santalum spicatum*)

Batch #:..... AU-59057

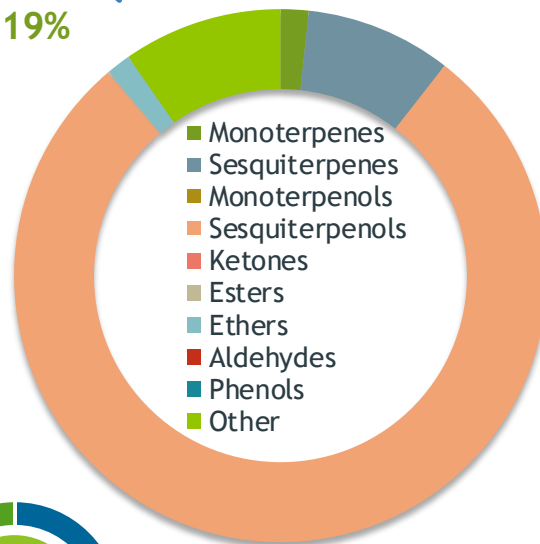
Type:..... Essential Oil

CAS Number:... 8024-35-9

Nature's Gift

Sesquiterpenols

78.19%



Client



Website

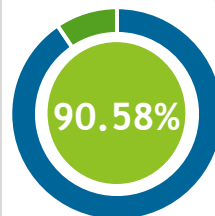


Primary

22.72% | cis-alpha-Santalol

9.65% | cis-beta-Santalol

9.05% | (Z)-Nuciferol



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 Sandalwood (*Santalum spicatum*)

Internal Number: | EVS-3716



Essential Validation Services

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Monoterpenes	1.70%
Sesquiterpenes	8.86%
Monoterpenols	0.00%
Sesquiterpenols	78.19%
Ketones	0.02%
Esters	0.07%
Ethers	1.47%
Aldehydes	0.00%
Phenols	0.00%
Other	9.67%

Client



Source

Sandalwood (*Santalum spicatum*)

AU-59057

Total Percentage		90.58%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.24	0.03%	Furfural	Furan
2	6.74	0.22%	Santene	Normonoterpene
3	19.51	0.02%	Santalone	Ketone
4	23.63	0.15%	UK Sandalwood	
5	26.52	0.11%	UK Sandalwood	
6	28.56	0.02%	23.75 Funebrene<2-epi-alpha->	0.00
7	29.44	0.20%	7-epi-Sesquithujene	Sesquiterpene
8	29.86	0.35%	alpha-Cedrene	Sesquiterpene
9	30.08	1.94%	alpha-Santalene	Sesquiterpene
10	30.68	0.62%	trans-alpha-Bergamotene	Sesquiterpene
11	31.23	1.20%	epi-beta-Santalene	Sesquiterpene
12	31.54	0.20%	Sesquisabinene	Sesquiterpene
13	31.73	1.87%	beta-Santalene	Sesquiterpene
14	31.87	0.23%	alpha-Acoradiene	Sesquiterpene
15	32.31	0.10%	10-epi-beta-Acoradiene	Sesquiterpene
16	32.51	0.65%	gamma-Curcumene	Sesquiterpene
17	32.63	0.48%	ar-Curcumene	Sesquiterpene
18	32.94	0.26%	11-alpha-H-Himachala-1,4-diene	Sesquiterpene
19	33.16	0.22%	beta-Chamigrene	Sesquiterpene
20	33.46	0.03%	cis-alpha-Bisabolene	Sesquiterpene
21	33.81	1.70%	beta-Curcumene	Monoterpene
22	33.92	0.22%	Sesquicineole	Sesquiterpenol
23	34.34	0.29%	beta-Sesquiphellandrene	Sesquiterpene
24	34.47	0.07%	trans-gamma-Bisabolene	Sesquiterpene
25	35.03	0.12%	trans-alpha-Bisabolene	Sesquiterpene
26	35.32	0.03%	trans-Cadina-1,4-diene	Sesquiterpene
27	35.84	2.07%	(E)-Nerolidol	Sesquiterpenol
28	36.15	1.23%	Dendrolasin	Sesquiterpene Ether
29	37.25	0.12%	Guaiol	Sesquiterpenol
30	38.20	0.24%	Humulene epoxide II	Sesquiterpene Ether
31	38.42	0.18%	alpha-Acorenol	Sesquiterpenol
32	39.46	0.14%	beta-Acorenol	Sesquiterpenol
33	39.67	1.20%	beta-Eudesmol	Sesquiterpenol
34	39.77	0.27%	UK Sandalwood	
35	39.94	3.13%	beta-Bisabolol	Sesquiterpenol

ESSENTIAL VALIDATION SERVICES | 747 SW 2ND 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



Source



Sandalwood (*Santalum spicatum*)
AU-59057

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Number	RT	Area %	Compound Name	Chemical Family
36	40.144	22.72%	cis-alpha-Santalol	Sesquiterpenol
37	40.24	0.67%	epi-beta-bisabolol	Sesquiterpenol
38	40.48	0.57%	Cedr-8-en-13-ol	Sesquiterpenol
39	40.61	7.95%	alpha-Bisabolol	Sesquiterpenol
40	40.72	0.54%	epi-alpha-Bisabolol	Sesquiterpenol
41	40.85	0.84%	trans-alpha-Santalol	Sesquiterpenol
42	41.08	2.23%	(Z)-epi-beta-Santalol	Sesquiterpenol
43	41.30	0.57%	(Z)-trans-alpha-Bergamotol	Sesquiterpenol
44	41.59	9.65%	cis-beta-Santalol	Sesquiterpenol
45	41.66	6.78%	(E,Z)-Farnesol	Sesquiterpenol
46	41.87	9.05%	(Z)-Nuciferol	Sesquiterpenol
47	42.05	0.26%	(Z)-gamma-Curcumen-12-ol	Sesquiterpenol
48	42.35	0.80%	(E,E)-Farnesol	Sesquiterpenol
49	42.42	1.37%	UK Sandalwood	
50	42.65	1.54%	UK Sandalwood	
51	42.74	1.06%	UK Sandalwood	
52	42.95	6.27%	(Z)-beta-Curcumen-12-ol	Sesquiterpenol
53	43.16	1.96%	cis-Lanceol	Sesquiterpenol
54	43.32	0.82%	UK Sandalwood	
55	43.64	0.27%	(E)-Nuciferol	Sesquiterpenol
56	43.88	0.23%	UK Sandalwood	
57	44.23	0.58%	UK Sandalwood	
58	45.30	0.04%	(Z)-alpha-Santalyl acetate	Sesquiterpene Ester
59	45.71	0.03%	(E,E)-Farnesyl acetate	Sesquiterpene Ester