



## Sandalwood Santalum album

Batch No. #AU-59357  
Australia

Sesquiterpenes	4.14%
β santalene	1.35
α santalene	0.89
epi-β santalene	0.88
ar-curcumene	0.33
β bisabolene	0.27
trans-α-bergamotene	0.23
α humulene	0.06
γ curcumene	0.06
7-epi-sesquithujene	0.02
α cedrene	0.02
bicyclogermacrene	0.02
β selinene	0.01

Monoterpenes	2.84%
limonene	2.00
α thujene	0.01
α pinene	0.04
sabinene	0.13
β pinene	0.17
myrcene	0.04
α terpinene	0.01
para-cymene	0.07
γ terpinene	0.35
terpinolene	0.02

Ethers	1.5%
1,8-cineole	1.48
dendrolasin	0.02

Ketones	0.14%
carvone	0.14

Other	0.96%
unknown	0.96

Sesquiterpenols	85.43%
(E)-α-santalol	42.52
cis β santalol	20.03
(Z)-α-trans-bergamotol	7.73
(Z)-epi-β-santalol	4.13
(Z)-lanceol	3.16
(Z)-nuciferol	3.14
(E) β santalol	1.43
vetiselinol	0.72
(Z) β curcumen-12-ol	0.65
trans α santalol	0.47
β-bisabolol	0.47
α sinensal	0.37
(Z) γ curcumen-12-ol	0.22
globulol	0.1
α-acoreno	0.09
teresantalol	0.07
(E) nerolidol	0.07
(Z) sesquisabinene hydrate	0.04
β acoreno	0.02

Monoterpenols	1.15%
α terpineol	0.64
terpinen-4-ol	0.22
linalool	0.2
δ terpineol	0.05
(E) sabinene hydrate	0.04

Esters	0.24%
(Z) α santalyl acetate	0.11
neryl acetate	0.05
geranyl acetate	0.04
linalyl acetate	0.02
(Z) β santalol acetate	0.02

Aldehydes	0.33%
geranial	0.13
(E) isovalencenal	0.11
neral	0.09

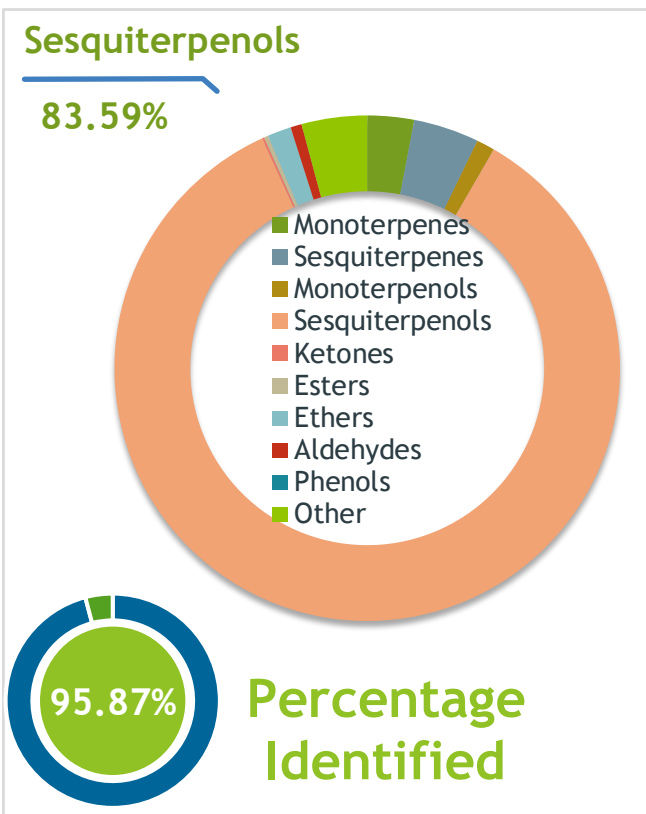
Client	 Nature's Gift	Source	
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Sandalwood Album (*Santalum album*)  
 AU-59357 - Australia

Sample	Sandalwood Album ( <i>Santalum album</i> ) Identification #: AU-59357 Type:..... Essential Oil CAS Number:... 8006-87-9 <p style="text-align: center; color: #76923c;">Nature's Gift</p>
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Properties	Country Of Origin   Australia Specific Gravity   NT Refractive Index   NT
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Primary	<table border="0"> <tr> <td style="text-align: right; padding-right: 10px;"><b>42.52%</b></td> <td><u>(E)-alpha-Santalol</u></td> </tr> <tr> <td style="text-align: right; padding-right: 10px;"><b>20.03%</b></td> <td><u>cis-beta-Santalol</u></td> </tr> <tr> <td style="text-align: right; padding-right: 10px;"><b>7.73%</b></td> <td><u>(Z)-trans-alpha-</u></td> </tr> </table>	<b>42.52%</b>	<u>(E)-alpha-Santalol</u>	<b>20.03%</b>	<u>cis-beta-Santalol</u>	<b>7.73%</b>	<u>(Z)-trans-alpha-</u>
<b>42.52%</b>	<u>(E)-alpha-Santalol</u>						
<b>20.03%</b>	<u>cis-beta-Santalol</u>						
<b>7.73%</b>	<u>(Z)-trans-alpha-</u>						



Result	 10/16/2023
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Conclusion	<p style="color: #003366; font-weight: bold;">No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Sandalwood Album (<i>Santalum album</i>)</p> <p style="text-align: right;">Internal Number:   EVS-5859</p>
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Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306  
 Gainesville, FL 32601  
 317.361.5044 |  
<https://essentialvalidationservices.com/>



Monoterpenes		2.94%
Sesquiterpenes		4.14%
Monoterpenols		1.15%
Sesquiterpenols		83.59%
Ketones		0.14%
Esters		0.26%
Ethers		1.50%
Aldehydes		0.70%
Phenols		0.00%
Other		4.13%

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Client



Source

Sandalwood Album (*Santalum album*)

AU-59357

Total Percentage		95.87%		
Number	RT	Area %	Compound Name	Chemical Family
1	8.16	0.01%	alpha-Thujene	Monoterpene
2	8.42	0.04%	alpha-Pinene	Monoterpene
3	9.98	0.13%	Sabinene	Monoterpene
4	10.15	0.17%	beta-Pinene	Monoterpene
5	10.73	0.04%	Myrcene	Monoterpene
6	11.86	0.01%	alpha-Terpinene	Monoterpene
7	12.19	0.07%	para-Cymene	Monoterpene
8	12.40	2.00%	Limonene	Monoterpene
9	12.49	1.48%	1,8-Cineole	Monoterpene Ether
10	13.71	0.35%	gamma-Terpinene	Monoterpene
11	14.24	0.04%	trans-Sabinene hydrate	Monoterpenol
12	14.94	0.02%	Terpinolene	Monoterpene
13	15.66	0.20%	Linalool	Monoterpenol
14	18.82	0.05%	delta-Terpineol	Monoterpenol
15	19.27	0.22%	Terpinen-4-ol	Monoterpenol
16	19.96	0.64%	alpha-Terpineol	Monoterpenol
17	21.95	0.09%	Neral	Monoterpene Aldehyde
18	22.15	0.14%	Carvone	Monoterpene Ketone
19	22.52	0.02%	Linalyl acetate	Monoterpene Ester
20	23.30	0.13%	Geranial	Monoterpene Aldehyde
21	27.29	0.05%	Neryl acetate	Monoterpene Ester
22	28.14	0.04%	Geranyl acetate	Monoterpene Ester
23	28.47	0.02%	7-epi-Sesquithujene	Sesquiterpene
24	29.52	0.02%	alpha-Cedrene	Sesquiterpene
25	29.74	0.89%	alpha-Santalene	Sesquiterpene
26	30.34	0.23%	trans-alpha-Bergamotene	Sesquiterpene
27	30.88	0.88%	epi-beta-Santalene	Sesquiterpene
28	31.15	0.06%	alpha-Humulene	Sesquiterpene
29	31.38	1.35%	beta-Santalene	Sesquiterpene
30	32.17	0.06%	gamma-Curcumene	Sesquiterpene
31	32.29	0.33%	ar-Curcumene	Sesquiterpene
32	32.51	0.01%	beta-Selinene	Sesquiterpene
33	32.80	0.02%	Bicyclogermacrene	Sesquiterpene
34	33.39	0.27%	beta-Bisabolene	Sesquiterpene
35	33.46	0.10%	beta-Curcumene	Monoterpene

Client



Source



Sandalwood Album (*Santalum album*)

AU-59357

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Number	RT	Area %	Compound Name	Chemical Family
36	34.788	0.04%	cis-Sesquisabinene hydrate	Monoterpene
37	35.49	0.07%	(E)-Nerolidol	Sesquiterpenol
38	35.79	0.02%	Dendrolasin	Sesquiterpene Ether
39	36.17	0.10%	Globulol	Sesquiterpenol
40	36.56	0.07%	Teresantalol	Sesquiterpenol
41	38.07	0.02%	beta-Acorenol	Sesquiterpenol
42	38.21	0.09%	alpha-Acorenol	Sesquiterpenol
43	38.85	0.47%	beta-Bisabolol	Sesquiterpenol
44	39.83	42.52%	(E)-alpha-Santalol	Sesquiterpenol
45	40.27	7.73%	(Z)-trans-alpha-Bergamotol	Sesquiterpenol
46	40.49	0.47%	trans-alpha-Santalol	Sesquiterpenol
47	40.74	4.13%	(Z)-epi-beta-Santalol	Sesquiterpenol
48	41.27	20.03%	cis-beta-Santalol	Sesquiterpenol
49	41.47	3.14%	(Z)-Nuciferol	Sesquiterpenol
50	41.69	0.72%	Vetiselinenol	Sesquiterpenol
51	41.98	1.43%	38.15 Santalol<(E)-beta->	0.00
52	42.09	0.96%	UK	
53	42.20	0.22%	(Z)-gamma-Curcumen-12-ol	Sesquiterpenol
54	42.35	0.37%	alpha-Sinensal	Sesquiterpene Aldehyde
55	42.55	0.65%	(Z)-beta-Curcumen-12-ol	Sesquiterpenol
56	42.79	3.16%	cis-Lanceol	Sesquiterpenol
57	43.53	0.11%	(E)-Isovalencenal	Sesquiterpene Aldehyde
58	43.86	0.11%	(Z)-alpha-Santalyl acetate	Sesquiterpene Ester
59	44.61	0.02%	41.05 Santalol acetate<(Z)-beta->	0.00

- 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