

Sandalwood *Santalum austrocaledonicum*

Batch No. #NC-59086
 New Caledonia

Sesquiterpenes 5.47%

| | |
|----------------------------|------|
| α santalene | 1.34 |
| β santalene | 1.19 |
| epi-β santalene | 1.13 |
| ar-curcumene | 0.41 |
| β bisabolene | 0.41 |
| α patchoulene | 0.24 |
| trans-α-bergamotene | 0.22 |
| 11-α-H-himachala-1,4-diene | 0.16 |
| α cedrene | 0.07 |
| γ curcumene | 0.07 |
| (E) α bisabolene | 0.06 |
| α acoradiene | 0.03 |
| β chamigrene | 0.03 |
| β sesquiphellandrene | 0.02 |
| (E) γ bisabolene | 0.02 |
| 10 epi β acoradiene | 0.02 |
| α chamigrene | 0.02 |
| (Z) α bisabolene | 0.02 |
| 7-epi-sesquithujene | 0.01 |

Sesquiterpenols 87.37%

| | |
|------------------------|-------|
| (E)-α-santalol | 40.84 |
| (Z)-lanceol | 6.38 |
| (Z) trans α-bergamotol | 5.97 |
| (Z)-epi-β-santalol | 4.91 |
| (Z)-nuciferol | 3.59 |
| β-bisabolol | 3.30 |
| (Z) γ curcumen-12-ol | 1.02 |
| (Z) β curcumen-12-ol | 0.72 |
| (Z)-α-santalol | 0.67 |
| cubebol | 0.67 |
| pogostol | 0.64 |
| (E)-β-santalol | 0.61 |
| himachalol | 0.43 |
| (E) nuciferol | 0.33 |
| (E)-Nerolidol | 0.31 |
| curcumenol | 0.31 |
| α-acorenol | 0.10 |
| teresantalol | 0.04 |
| (Z) β santalol | 16.53 |

Aldehydes 0.73%

| | |
|------------|------|
| α santalal | 0.36 |
| α sinensal | 0.37 |

Esters 0.12%

| | |
|----------------------------|------|
| Santalol acetate (Z) epi β | 0.05 |
| italicene epoxide | 0.04 |
| (Z)-α-santalyl acetate | 0.02 |
| Lanceol acetate | 0.01 |

Ketones 0.05%

| | |
|-----------------|------|
| santalone | 0.02 |
| farnesylacetone | 0.03 |

Other 0.21%

| | |
|---------------------|------|
| santene | 0.16 |
| furfural | 0.02 |
| Funebrene <2 epi α> | 0.03 |

Client



Source



Sandalwood (*Santalum austrocaledonicum*)
NC-59086

Sample

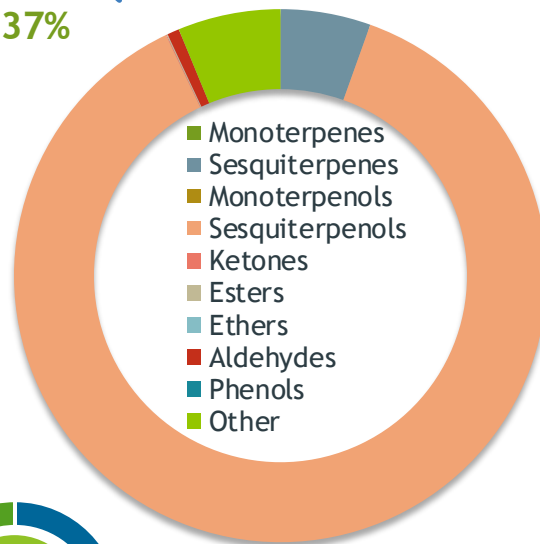
Sandalwood (*Santalum austrocaledonicum*)

Batch #:..... NC-59086
Type:..... Essential Oil
CAS Number:...

Nature's Gift

Sesquiterpenols

87.37%



Client

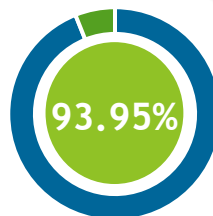


Website



Primary

40.84% | (E)-alpha-Santalol
16.53% | cis-beta-Santalol
6.38% | cis-Lanceol



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 austrocaledonicum*)

Internal Number: | EVS-3820



Essential Validation Services

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

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

adam@essentialvalidationservices.com

| | |
|-----------------|--------|
| Monoterpenes | 0.00% |
| Sesquiterpenes | 5.47% |
| Monoterpenols | 0.00% |
| Sesquiterpenols | 87.37% |
| Ketones | 0.05% |
| Esters | 0.06% |
| Ethers | 0.00% |
| Aldehydes | 0.73% |
| Phenols | 0.00% |
| Other | 6.23% |

- 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 austrocaledonicum*)

NC-59086

| Total Percentage | | 93.95% | | |
|------------------|-------|--------|--------------------------------|------------------------|
| Number | RT | Area % | Compound Name | Chemical Family |
| 1 | 5.22 | 0.02% | Furfural | Furan |
| 2 | 6.72 | 0.16% | Santene | Normonoterpene |
| 3 | 19.48 | 0.02% | Santalone | Ketone |
| 4 | 23.90 | 0.36% | alpha-Santalal | Sesquiterpene Aldehyde |
| 5 | 28.77 | 0.01% | 7-epi-Sesquithujene | Sesquiterpene |
| 6 | 29.40 | 0.03% | 23.75 Funebrene<2-epi-alpha-> | 0.00 |
| 7 | 29.83 | 0.07% | alpha-Cedrene | Sesquiterpene |
| 8 | 30.06 | 1.34% | alpha-Santalene | Sesquiterpene |
| 9 | 30.65 | 0.22% | trans-alpha-Bergamotene | Sesquiterpene |
| 10 | 31.20 | 1.13% | epi-beta-Santalene | Sesquiterpene |
| 11 | 31.71 | 1.19% | beta-Santalene | Sesquiterpene |
| 12 | 31.84 | 0.03% | alpha-Acoradiene | Sesquiterpene |
| 13 | 31.99 | 0.24% | alpha-Patchoulene | Sesquiterpene |
| 14 | 32.28 | 0.02% | 10-epi-beta-Acoradiene | Sesquiterpene |
| 15 | 32.48 | 0.07% | gamma-Curcumene | Sesquiterpene |
| 16 | 32.60 | 0.41% | ar-Curcumene | Sesquiterpene |
| 17 | 32.72 | 0.03% | beta-Chamigrene | Sesquiterpene |
| 18 | 33.10 | 0.02% | alpha-Chamigrene | Sesquiterpene |
| 19 | 33.43 | 0.02% | cis-alpha-Bisabolene | Sesquiterpene |
| 20 | 33.71 | 0.41% | beta-Bisabolene | Sesquiterpene |
| 21 | 33.77 | 0.16% | 11-alpha-H-Himachala-1,4-diene | Sesquiterpene |
| 22 | 34.32 | 0.02% | beta-Sesquiphellandrene | Sesquiterpene |
| 23 | 34.45 | 0.02% | trans-gamma-Bisabolene | Sesquiterpene |
| 24 | 35.00 | 0.06% | trans-alpha-Bisabolene | Sesquiterpene |
| 25 | 35.53 | 0.04% | Italicene epoxide | Sesquiterpene Ester |
| 26 | 35.80 | 0.31% | (E)-Nerolidol | Sesquiterpenol |
| 27 | 36.87 | 0.04% | Teresantalol | Sesquiterpenol |
| 28 | 38.54 | 0.10% | alpha-Acorenol | Sesquiterpenol |
| 29 | 39.23 | 0.67% | Cubenol | Sesquiterpenol |
| 30 | 39.54 | 0.43% | Himachalol | Sesquiterpenol |
| 31 | 39.65 | 0.64% | Pogostol | Sesquiterpenol |
| 32 | 39.95 | 3.30% | beta-Bisabolol | Sesquiterpenol |
| 33 | 40.36 | 40.84% | (E)-alpha-Santalol | Sesquiterpenol |
| 34 | 40.69 | 5.97% | (Z)-trans-alpha-Bergamotol | Sesquiterpenol |
| 35 | 40.89 | 0.67% | cis-alpha-Santalol | Sesquiterpenol |

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

