



hawaii
S A N D A L W O O D

P.O. Box 2447, Kamuela HI 96743

www.HawaiiSandalwood.com

Certificate of Analysis

Batch Number: HA. 05152019
Manufacture Date: May 15, 2019
Essential Oil: Sandalwood oil, (*Santalum paniculatum*)
Common Name: Hawaiian Sandalwood, Iliahi
Appearance: Yellow to pale yellow, viscous clear liquid
CAS# 1374753-89-5
Origin: USA/State of Hawaii
Organic Cert: ECOCERT ICO

G.C. Operating Parameters:

H.P. 6890 gas chromatography with Agilent 7683 Injector and H.P. 5973 mass selective detector; Carrier Gas: Hydrogen Column: 5% phenylpolydimethylsiloxane (30m X 0.25mm X 0.25um): Temperature program 60 C (5 min); 4.0 C/min to 250 C, 250 C (10min).

<u>Parameter</u>	<u>Percentage concentration</u>
Cis-a-trans-bergamatol	3.15%
a-santalol	38.16%
cis-a-santalol	3.79%
epi-b-santalene	0.73%
a-santalene	0.91%
b-santalene	1.11%
b-santalol	17.88%
epi-b-santalol	3.64%
b-bisabolol	0.78%
cis-lanceol	6.60%

Organoleptic:

The olfactory character of Royal Hawaiian Sandalwood is powerful and diffuse in the top notes, the woody heart notes compliment the spicy base. It has a true sandalwood character throughout the cord.

Physical Parameters:

Optical Rotation	-8.5
Refractive Index at 20 C	1.507
Specific Gravity 20 C	0.98
Solubility in 70% (V/V) Ethanol at 20 C	2.1
pH	6.47