

# Hawaiian Choice CBD

## Independent Lab Report

Markings in RED are by Hawaiian Choice to highlight key findings

### Tincture Test Summary

**Batch 6621**

View any other batch by scanning QR code on the box or visit our website  
**Manufacturing Date**

**THC None Detected**

**CBD 14.6 mg per ml**  
- Bottle 30 ml = 438 mg

**Broad Spectrum**

CBG & CBN also detected  
in significant levels (1.62 mg/ml)  
(beneficial non-psychoactive cannabinoids)

**Microbial None Detected**

Bacteria, spores, molds, fungus



## Steep Hill Hawaii

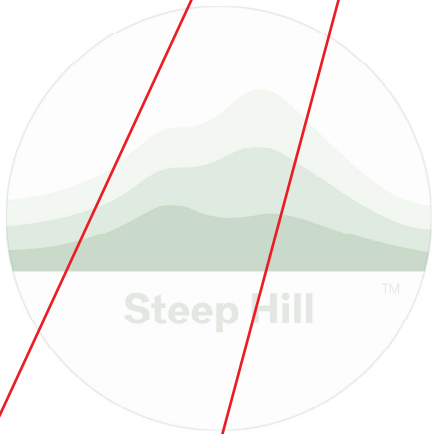
1150 S. KING STREET, HONOLULU, HI 96814 LICENSE #: 92630  
CERTIFICATE OF ANALYSIS

Sample Name: 6621  
Steep Hill ID: HI87830  
Batch ID:  
State ID:  
Sample Type: Tincture  
Date Received: 7/7/2020  
Date Reported: 7/11/2020  
Density: 0.928 g/mL

Customer: Hawaiian Choice

### OVERALL BATCH SUMMARY: PASS

Residual Pesticides **Pass** Microbial Impurities **Pass** Mycotoxins **Pass** Heavy Metals **Pass** Foreign Material **NT** Residual Solvents **NT**



**Total THC**  
Not Detected  
Not Detected  
Not Detected

**Total CBD**  
1.57 %  
15.7 mg/g  
14.6 mg/mL

**Total Cannabinoids**  
1.74 %  
17.4 mg/g  
16.2 mg/mL

Total THC = [THCA x 0.877] + [THC]  
Total CBD = [CBDA x 0.877] + [CBD]



Nelson Lazaga, Ph.D.  
Laboratory Director  
Date: 7/11/2020

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## Steep Hill Hawaii

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**Terpenoid Results** NT  
Standard terpene analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS; HI-SOP-024)

| Analyte             | %  | mg/g | mg/mL | LOD mg/g | LOQ mg/g |
|---------------------|----|------|-------|----------|----------|
| α-Bisabolol         | NT | NT   | NT    | NT       | NT       |
| Camphene            | NT | NT   | NT    | NT       | NT       |
| 3-Carene            | NT | NT   | NT    | NT       | NT       |
| Caryophyllene Oxide | NT | NT   | NT    | NT       | NT       |
| β-Caryophyllene     | NT | NT   | NT    | NT       | NT       |
| Eucalyptol          | NT | NT   | NT    | NT       | NT       |
| Geraniol            | NT | NT   | NT    | NT       | NT       |
| Guaiol              | NT | NT   | NT    | NT       | NT       |
| Humulene            | NT | NT   | NT    | NT       | NT       |
| p-Isopropyltoluene  | NT | NT   | NT    | NT       | NT       |
| Isopulegol          | NT | NT   | NT    | NT       | NT       |
| Limonene            | NT | NT   | NT    | NT       | NT       |
| Linolol             | NT | NT   | NT    | NT       | NT       |
| β-Myrcene           | NT | NT   | NT    | NT       | NT       |
| Nerolidol           | NT | NT   | NT    | NT       | NT       |
| Ocimene             | NT | NT   | NT    | NT       | NT       |
| α-Pinene            | NT | NT   | NT    | NT       | NT       |
| β-Pinene            | NT | NT   | NT    | NT       | NT       |
| α-Terpinene         | NT | NT   | NT    | NT       | NT       |
| γ-Terpinene         | NT | NT   | NT    | NT       | NT       |
| Terpinolene         | NT | NT   | NT    | NT       | NT       |
| Total               | NT | NT   | NT    | NT       | NT       |

**Microbial Impurities Results** **Pass** 7/11/2020  
Microbiological screening utilizing PathogenDx and TEMPO (HI-SOP-008 + HI-SOP-007) - Limit units: CFU/g

| Analyte               | Pass/Fail | Result | Limit | LOQ                    |
|-----------------------|-----------|--------|-------|------------------------|
| Aspergillus flavus    | Pass      | ND     | ND    | Not Detected in 1 gram |
| Aspergillus fumigatus | Pass      | ND     | ND    | Not Detected in 1 gram |
| Aspergillus niger     | Pass      | ND     | ND    | Not Detected in 1 gram |
| Salmonella            | Pass      | ND     | ND    | Not Detected in 1 gram |
| Aerobic               | Pass      | <100   | 10000 | 1 CFU/g                |
| Coliform              | Pass      | <100   | 100   | 1 CFU/g                |
| Enterobacteria        | Pass      | <100   | 100   | 1 CFU/g                |
| General E. coli       | Pass      | <1     | ND    | 1 CFU/g                |
| Yeast & Mold          | Pass      | <100   | 1000  | 1 CFU/g                |

**Moisture Results** NT  
Moisture content analysis utilizing Moisture Balance (MB; HI-SOP-033) - Limit units: %

| Analyte  | Pass/Fail | %  | Limit |
|----------|-----------|----|-------|
| Moisture | NT        | NT |       |

**Foreign Material Results** NT  
Foreign material analysis utilizing visual inspection with 10x magnification (HI-SOP-016)

| Analyte           | Pass/Fail |
|-------------------|-----------|
| Visual Inspection | NT        |

**Cannabinoid Results** 7/8/2020  
Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; HI-SOP-024)

| Analyte     | %      | mg/g  | mg/mL | LOD mg/g | LOQ mg/g |
|-------------|--------|-------|-------|----------|----------|
| CBC         | NT     | NT    | NT    | NT       | NT       |
| CBD         | 1.57   | 15.7  | 14.6  | 0.00918  | 0.00964  |
| CBDA        | ND     | ND    | ND    | 0.00918  | 0.0165   |
| CBDV        | NT     | NT    | NT    | NT       | NT       |
| CBDVA       | NT     | NT    | NT    | NT       | NT       |
| CBG         | 0.0091 | 0.991 | 0.919 | 0.00918  | 0.0106   |
| CBGA        | NT     | NT    | NT    | NT       | NT       |
| CBN         | 0.0751 | 0.751 | 0.696 | 0.00918  | 0.00918  |
| THC         | ND     | ND    | ND    | 0.00918  | 0.00918  |
| delta-8-THC | NT     | NT    | NT    | NT       | NT       |
| THCA        | ND     | ND    | ND    | 0.00918  | 0.0211   |
| THCV        | NT     | NT    | NT    | NT       | NT       |
| THCVA       | NT     | NT    | NT    | NT       | NT       |
| Total       | 1.74   | 17.4  | 16.2  |          |          |

LOD: Limit of Detection  
LOQ: Limit of Quantitation  
NT: Not Tested  
ND: Not Detected

Nelson Lazaga, Ph.D.  
Laboratory Director  
Date: 7/11/2020

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# Hawaiian Choice CBD Independent Lab Report

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## Tincture

Pesticides **None Detected**  
 Mycotoxins **None Detected**  
 Heavy Metals **None Detected**



# Steep Hill Hawaii

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## CERTIFICATE OF ANALYSIS

**Residual Pesticides Results** Pass 7/10/2020  
 Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS/MS; HI-SOP-025) - Limit units: ug/g = ppm

| Analyte             | Pass/Fail | µg/g | Limit | LOD µg/g | LOQ µg/g | Analyte            | Pass/Fail | µg/g | Limit | LOD µg/g | LOQ µg/g |
|---------------------|-----------|------|-------|----------|----------|--------------------|-----------|------|-------|----------|----------|
| Abamectin B1a       | Pass      | ND   | 1     | 0.233    | 0.706    | Imazalil           | Pass      | ND   | 1     | 0.0456   | 0.138    |
| Acephate            | Pass      | ND   | 1     | 0.0666   | 0.202    | Imidacloprid       | Pass      | ND   | 1     | 0.0661   | 0.200    |
| Acequinocyl         | Pass      | ND   | 1     | 0.00340  | 0.918    | Kresoxim-methyl    | Pass      | ND   | 1     | 0.0625   | 0.189    |
| Acetamiprid         | Pass      | ND   | 1     | 0.110    | 0.335    | Malathion          | Pass      | ND   | 1     | 0.0571   | 0.173    |
| Aldicarb            | Pass      | ND   | 1     | 0.0366   | 0.111    | Metaxyl            | Pass      | ND   | 1     | 0.0547   | 0.166    |
| Azoxystrobin        | Pass      | ND   | 1     | 0.0849   | 0.257    | Methiocarb         | Pass      | ND   | 1     | 0.0932   | 0.282    |
| Bifenazate          | Pass      | ND   | 1     | 0.0980   | 0.297    | Methomyl           | Pass      | ND   | 1     | 0.0363   | 0.110    |
| Bifenthrin          | Pass      | ND   | 1     | 0.192    | 0.582    | Methyl Parathion   | Pass      | ND   | 1     | 0.138    | 0.420    |
| Boscalid            | Pass      | ND   | 1     | 0.200    | 0.607    | MGK-264            | Pass      | ND   | 1     | 0.181    | 0.549    |
| Carbaryl            | Pass      | ND   | 1     | 0.0387   | 0.117    | Myclobutanil       | Pass      | ND   | 1     | 0.0561   | 0.170    |
| Carbofuran          | Pass      | ND   | 1     | 0.0272   | 0.0824   | Naled              | Pass      | ND   | 1     | 0.0517   | 0.157    |
| Chlorantraniliprole | Pass      | ND   | 1     | 0.0833   | 0.253    | Oxamyl             | Pass      | ND   | 1     | 0.0360   | 0.109    |
| Chlorfenapyr        | Pass      | ND   | 1     | 0.0358   | 0.109    | Paclobutrazol      | Pass      | ND   | 1     | 0.0365   | 0.111    |
| Chlorpyrifos        | Pass      | ND   | 1     | 0.0819   | 0.248    | Permethrin         | Pass      | ND   | 1     | 0.249    | 0.754    |
| Clofentezine        | Pass      | ND   | 1     | 0.155    | 0.469    | Phosmet            | Pass      | ND   | 1     | 0.129    | 0.391    |
| Cyfluthrin          | Pass      | ND   | 1     | 0.385    | 0.918    | Piperonyl Butoxide | Pass      | ND   | 1     | 0.0422   | 0.128    |
| Cypermethrin        | Pass      | ND   | 1     | 0.245    | 0.743    | Prallethrin        | Pass      | ND   | 1     | 0.0766   | 0.232    |
| Diazinon            | Pass      | ND   | 1     | 0.0324   | 0.0982   | Propiconazole      | Pass      | ND   | 1     | 0.0781   | 0.237    |
| Dichlorvos          | Pass      | ND   | 1     | 0.165    | 0.499    | Propoxur           | Pass      | ND   | 1     | 0.0286   | 0.0866   |
| Dimethoate          | Pass      | ND   | 1     | 0.0456   | 0.138    | Pyrethrins         | Pass      | ND   | 1     | 0.0366   | 0.111    |
| Ethoprophos         | Pass      | ND   | 1     | 0.0865   | 0.262    | Pyridaben          | Pass      | ND   | 1     | 0.194    | 0.589    |
| Etofenprox          | Pass      | ND   | 1     | 0.224    | 0.679    | Spinosad           | Pass      | ND   | 1     | 0.0306   | 0.0926   |
| Etoxazole           | Pass      | ND   | 1     | 0.0461   | 0.140    | Spiromesifen       | Pass      | ND   | 1     | 0.0578   | 0.175    |
| Fenpyroximate       | Pass      | ND   | 1     | 0.00186  | 0.00413  | Spirotetramat      | Pass      | ND   | 1     | 0.0491   | 0.149    |
| Fipronil            | Pass      | ND   | 1     | 0.104    | 0.316    | Tebuconazole       | Pass      | ND   | 1     | 0.0746   | 0.226    |
| Flonicamid          | Pass      | ND   | 1     | 0.0889   | 0.269    | Thiacloprid        | Pass      | ND   | 1     | 0.0570   | 0.173    |
| Fludioxonil         | Pass      | ND   | 1     | 0.0573   | 0.174    | Thiamethoxam       | Pass      | ND   | 1     | 0.0382   | 0.116    |
| Hexythiazox         | Pass      | ND   | 1     | 0.204    | 0.618    | Trifloxystrobin    | Pass      | ND   | 1     | 0.0371   | 0.113    |

**Mycotoxin Results** Pass 7/10/2020  
 Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS; HI-SOP-025) - Limit units: µg/kg = ppb

| Analyte          | Pass/Fail | µg/kg | Limit | LOD µg/kg | LOQ µg/kg |
|------------------|-----------|-------|-------|-----------|-----------|
| Aflatoxin B1     | ND        |       | 4.76  |           | 14.4      |
| Aflatoxin B2     | ND        |       | 4.37  |           | 13.2      |
| Aflatoxin G1     | ND        |       | 4.53  |           | 13.7      |
| Aflatoxin G2     | ND        |       | 6.54  |           | 19.8      |
| Ochratoxin A     | Pass      | ND    | <20   | 8.44      | 25.6      |
| Total Aflatoxins | Pass      | ND    | <20   | 6.54      | 19.8      |

**Heavy Metals Results** Pass 7/9/2020  
 Heavy metals analysis utilizing Atomic Absorption Spectroscopy (AAS; HI-SOP-015) - Limit units: µg/g = ppm

| Analyte | Pass/Fail | µg/g | Limit | LOD µg/g  | LOQ µg/g |
|---------|-----------|------|-------|-----------|----------|
| Arsenic | Pass      | ND   | 10    | 0.00146   | 1.52     |
| Cadmium | Pass      | ND   | 4     | 0.0000121 | 1.52     |
| Lead    | Pass      | ND   | 6     | 0.00176   | 1.52     |
| Mercury | Pass      | <LOQ | 2     | 0.00131   | 1.52     |

**Residual Solvents Results** NT  
 Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; HI-SOP-010) - Limit units: ug/g = ppm

| Analyte      | Pass/Fail | µg/g | Limit | LOD µg/g | LOQ µg/g | Analyte         | Pass/Fail | µg/g | Limit | LOD µg/g | LOQ µg/g |
|--------------|-----------|------|-------|----------|----------|-----------------|-----------|------|-------|----------|----------|
| Acetone      | NT        | NT   | NT    | NT       | NT       | Isobutane       | NT        | NT   | NT    | NT       | NT       |
| Acetonitrile | NT        | NT   | NT    | NT       | NT       | Isopropanol     | NT        | NT   | NT    | NT       | NT       |
| Benzene      | NT        | NT   | NT    | NT       | NT       | Methanol        | NT        | NT   | NT    | NT       | NT       |
| Butanes      | NT        | NT   | NT    | NT       | NT       | n-Pentane       | NT        | NT   | NT    | NT       | NT       |
| Chloroform   | NT        | NT   | NT    | NT       | NT       | Tetrahydrofuran | NT        | NT   | NT    | NT       | NT       |
| Ethanol      | NT        | NT   | NT    | NT       | NT       | Toluene         | NT        | NT   | NT    | NT       | NT       |
| Heptanes     | NT        | NT   | NT    | NT       | NT       | Total Xylenes   | NT        | NT   | NT    | NT       | NT       |
| n-Hexane     | NT        | NT   | NT    | NT       | NT       |                 |           |      |       |          |          |

Nelson Lazaga, Ph.D.  
 Laboratory Director  
 Date: 7/11/2020

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