

Hawaiian Choice CBD

Independant Lab Report

Markings in RED are by Hawaiian Choice to highlight key findings

Topical Test Summary

Batch 6611

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

THC None Detected


CBD 4.42mg per ml
- Jar 45ml = 198.9mg

Broad Spectrum

CBN also detected
(beneficial non-psychoactive cannabinoid)

Microbial None Detected

Bacteria, spores, molds, fungus



Steep Hill Hawaii

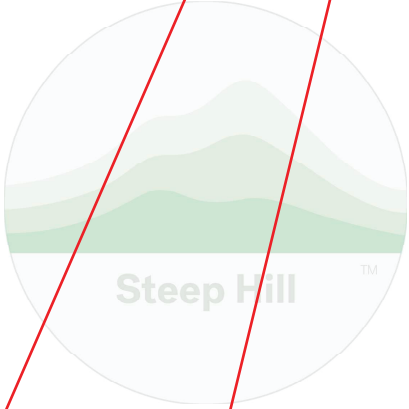
1150 S. KING STREET, HONOLULU, HI 96814 LICENSE #: 92630
CERTIFICATE OF ANALYSIS

Sample Name: 6611
Steep Hill ID: HI82147
Batch ID:
State ID:
Sample Type: Tincture
Date Received: 2/20/2020
Date Reported: 2/24/2020
Density: 1 g/mL

Customer: **Hawaiian Choice**

OVERALL BATCH SUMMARY: PASS

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




Total THC
Not Detected
Not Detected
Not Detected

Total CBD
0.430 %
4.30 mg/g
4.42 mg/mL

Total Cannabinoids
0.433 %
4.33 mg/g
4.46 mg/mL


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



Nelson Lazaga, Ph.D
Laboratory Director
Date: 2/24/2020

The following results relate only to the samples tested and for the specific tests conducted. Steep Hill grants permission to reproduce this document in full only.

CERTIFICATE #: HI82147
REVISION #: HI82147.1
Page 1 of 4



Steep Hill Hawaii

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

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
β-Isopropyltoluene	NT	NT	NT	NT	NT
Isopulegol	NT	NT	NT	NT	NT
Limonene	NT	NT	NT	NT	NT
Linalool	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 2/21/2020
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 Pass 2/24/2020
Foreign material analysis utilizing visual inspection with 10x magnification (HI-SOP-016)

Analyte	Pass/Fail
Visual Inspection	Pass

Cannabinoid Results 2/24/2020
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	0.430	4.30	4.42	0.00926	0.00973
CBDA	ND	ND	ND	0.00926	0.0167
CBDV	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT
CBG	ND	ND	ND	0.00926	0.0107
CBGA	NT	NT	NT	NT	NT
CBN	0.00365	0.0365	0.0376	0.00926	0.00926
THC	ND	ND	ND	0.00926	0.00926
delta-8-THC	NT	NT	NT	NT	NT
THCA	ND	ND	ND	0.00926	0.0213
THCV	NT	NT	NT	NT	NT
THCVA	NT	NT	NT	NT	NT
Total	0.433	4.33	4.46		

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




Nelson Lazaga, Ph.D
Laboratory Director
Date: 2/24/2020

The following results relate only to the samples tested and for the specific tests conducted. Steep Hill grants permission to reproduce this document in full only.

CERTIFICATE #: HI82147
REVISION #: HI82147.1
Page 3 of 4


Topical

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



Steep Hill Hawaii

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



Residual Pesticides Results Pass 2/21/2020
 Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS/MS; HI-SOP-025) - Limit units: $\mu\text{g/g} = \text{ppm}$

Analyte	Pass/Fail	$\mu\text{g/g}$	Limit	LOD $\mu\text{g/g}$	LOQ $\mu\text{g/g}$	Analyte	Pass/Fail	$\mu\text{g/g}$	Limit	LOD $\mu\text{g/g}$	LOQ $\mu\text{g/g}$
Abamectin B1a	Pass	ND	1	1.18	3.56	Hexythiazox	Pass	ND	1	1.03	3.12
Acephate	Pass	ND	1	0.336	1.02	Imazail	Pass	ND	1	0.230	0.697
Acequinocyl	Pass	ND	1	0.0171	4.63	Imidacloprid	Pass	ND	1	0.333	1.01
Acetamiprid	Pass	ND	1	0.557	1.69	Kresoxim-methyl	Pass	ND	1	0.315	0.955
Aldicarb	Pass	ND	1	0.185	0.560	Malathion	Pass	ND	1	0.288	0.873
Azoxystrobin	Pass	ND	1	0.428	1.30	Metaxyl	Pass	ND	1	0.276	0.836
Bifenazate	Pass	ND	1	0.494	1.50	Methiocarb	Pass	ND	1	0.470	1.42
Bifenthrin	Pass	ND	1	0.969	2.94	Methomyl	Pass	ND	1	0.183	0.555
Boscalid	Pass	ND	1	1.01	3.06	Methyl Parathion	Pass	ND	1	0.699	2.12
Carbaryl	Pass	ND	1	0.196	0.593	MGK-264	Pass	ND	1	0.915	2.77
Carbofuran	Pass	ND	1	0.137	0.416	Myclobutanil	Pass	ND	1	0.283	0.859
Chlorantraniliprole	Pass	ND	1	0.421	1.27	Naled	Pass	ND	1	0.261	0.791
Chlorfenapyr	Pass	ND	1	0.181	0.548	Oxamyl	Pass	ND	1	0.182	0.551
Chlorpyrifos	Pass	ND	1	0.413	1.25	Pacllobutrazol	Pass	ND	1	0.184	0.558
Clofentazine	Pass	ND	1	0.780	2.36	Permethrin	Pass	ND	1	1.25	3.80
Cyfluthrin	Pass	ND	1	1.94	4.63	Phosmet	Pass	ND	1	0.651	1.97
Cypermethrin	Pass	ND	1	1.24	3.75	Piperonyl Butoxide	Pass	ND	1	0.213	0.645
Diazinon	Pass	ND	1	0.164	0.496	Prallethrin	Pass	ND	1	0.387	1.17
Dichlorvos	Pass	ND	1	0.831	2.52	Propiconazole	Pass	ND	1	0.394	1.19
Dimethoate	Pass	ND	1	0.230	0.697	Propoxur	Pass	ND	1	0.144	0.437
Ethoprophos	Pass	ND	1	0.436	1.32	Pyrethrins	Pass	ND	1	0.184	0.559
Etofenprox	Pass	ND	1	1.13	3.42	Pyridaben	Pass	ND	1	0.881	2.97
Etoxazole	Pass	ND	1	0.232	0.705	Spinosad	Pass	ND	1	0.154	0.467
Fenpyroximate	Pass	ND	1	0.00686	0.0208	Spiromesifen	Pass	ND	1	0.292	0.884
Fipronil	Pass	ND	1	0.526	1.59	Spirotramat	Pass	ND	1	0.248	0.750
Fonicamid	Pass	ND	1	0.449	1.36	Tebuconazole	Pass	ND	1	0.376	1.14
Fludioxonil	Pass	ND	1	0.289	0.877	Thiacloprid	Pass	ND	1	0.288	0.872

Mycotoxin Results Pass 2/21/2020
 Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS; HI-SOP-025) - Limit units: $\mu\text{g/kg} = \text{ppb}$


Analyte	Pass/Fail	$\mu\text{g/kg}$	Limit	LOD $\mu\text{g/kg}$	LOQ $\mu\text{g/kg}$
Aflatoxin B1	ND	ND	24.0	72.8	
Aflatoxin B2	ND	ND	22.0	66.8	
Aflatoxin G1	ND	ND	22.8	69.2	
Aflatoxin G2	ND	ND	33.0	100	
Ochratoxin A	Pass	ND	<20	42.6	129
Total Aflatoxins	Pass	ND	<20	33.0	100

Heavy Metals Results Pass 2/20/2020
 Heavy metals analysis utilizing Atomic Absorption Spectroscopy (AAS; HI-SOP-015) - Limit units: $\mu\text{g/g} = \text{ppm}$

Analyte	Pass/Fail	$\mu\text{g/g}$	Limit	LOD $\mu\text{g/g}$	LOQ $\mu\text{g/g}$
Arsenic	Pass	<LOQ	10	0.00123	1.29
Cadmium	Pass	ND	4	0.0000103	1.29
Lead	Pass	<LOQ	6	0.00149	1.29
Mercury	Pass	ND	2	0.00111	1.29

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

Analyte	Pass/Fail	$\mu\text{g/g}$	Limit	LOD $\mu\text{g/g}$	LOQ $\mu\text{g/g}$	Analyte	Pass/Fail	$\mu\text{g/g}$	Limit	LOD $\mu\text{g/g}$	LOQ $\mu\text{g/g}$
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: 2/24/2020

The following results relate only to the samples tested and for the specific tests conducted. Steep Hill grants permission to reproduce this document in full only.

© 2020 STEEP HILL, INC. ALL RIGHTS RESERVED

CERTIFICATE #: HI82147
 REVISION #: HI82147.1
 Page 2 of 4