Hawaiian Choice CBD **Independant Lab Report**

Markings in RED are by Hawaiian Choice to highlight key findings

Tincture

Test Summary

Batch 6627
View any other batch by scanning QR code on the box or visit our website

THC None Detected

CBD 26.0 mg per ml
- Bottle 30 ml = 780 mg
- Spray 0.4 ml = 10.4 mg

Broad Spectrum
CBG & CBN also detected in significant levels (3.44 mg/ml) (beneficial non-psychoactive cannabinoids)

Microbial None Detected
Bacteria, spores, molds, fungus

Steep Hill Hawaii

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CERTIFICATE OF ANALYSIS

Sample Name: 6627
Steep Hill ID: HI94627
Batch ID:
State ID:
Sample Type: Tincture
Date Received: 11/23/2020
Date Reported: 12/7/2020
Density: 0.930 g/mL

Customer: **Hawaiian Choice**

OVERALL BATCH SUMMARY: PASS

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

Total THC	Total CBD	Total Cannabinoids
Not Detected	2.61 %	2.95 %
Not Detected	26.1 mg/g	29.5 mg/g
Not Detected	26.0 mg/mL	29.4 mg/mL

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

Nelson Lazaga, Ph.D
Laboratory Director
Date: 12/7/2020

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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
Citronellol	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
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 11/26/2020
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 12/7/2020
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	2.61	26.1	26.0	0.00806	0.00847
CBDA	ND	ND	ND	0.00806	0.0145
CBDV	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT
CBG	0.184	1.84	1.83	0.00806	0.00927
CBGA	NT	NT	NT	NT	NT
CBN	0.162	1.62	1.61	0.00806	0.00806
THC	ND	ND	ND	0.00806	0.00806
delta-8-THC	NT	NT	NT	NT	NT
THCA	ND	ND	ND	0.00806	0.0185
THCV	NT	NT	NT	NT	NT
THCVA	NT	NT	NT	NT	NT
Total	2.95	29.5	29.4		

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

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Laboratory Director
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Hawaiian Choice CBD **Independant Lab Report** Markings in RED are by Hawaiian Choice to highlight key findings

Tincture

Pesticides **None Detected**

Heavy Metals **None Detected**

Mycotoxins **None Detected**

Steep Hill Hawaii

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CERTIFICATE OF ANALYSIS

Residual Pesticides Results **Pass** **11/26/2020**

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; 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	0.248	0.750	Imazalil	Pass	ND	1	0.0484	0.147
Acephate	Pass	ND	1	0.0708	0.214	Imidacloprid	Pass	ND	1	0.0702	0.213
Acequinocyl	Pass	ND	1	0.00361	0.975	Kresoxim-methyl	Pass	ND	1	0.0664	0.201
Acetamiprid	Pass	ND	1	0.117	0.356	Malathion	Pass	ND	1	0.0607	0.184
Aldicarb	Pass	ND	1	0.0389	0.118	Metalaxyl	Pass	ND	1	0.0581	0.176
Azoxystrobin	Pass	ND	1	0.0902	0.273	Methiocarb	Pass	ND	1	0.0990	0.300
Bifenazate	Pass	ND	1	0.104	0.315	Methomyl	Pass	ND	1	0.0385	0.117
Bifenthrin	Pass	ND	1	0.204	0.618	Methyl Parathion	Pass	ND	1	0.147	0.446
Boscalid	Pass	ND	1	0.213	0.645	MGK-264	Pass	ND	1	0.193	0.584
Carbaryl	Pass	ND	1	0.0412	0.125	Myclobutanil	Pass	ND	1	0.0597	0.181
Carbofuran	Pass	ND	1	0.0289	0.0875	Naled	Pass	ND	1	0.0550	0.167
Chlorantraniliprole	Pass	ND	1	0.0885	0.268	Oxamyl	Pass	ND	1	0.0383	0.116
Chlorfenapyr	Pass	ND	1	0.0381	0.115	Paclobutrazol	Pass	ND	1	0.0388	0.118
Chlorpyrifos	Pass	ND	1	0.0870	0.264	Permethrin	Pass	ND	1	0.264	0.801
Clofentezine	Pass	ND	1	0.164	0.498	Phosmet	Pass	ND	1	0.137	0.415
Cyfluthrin	Pass	ND	1	0.409	0.975	Piperonyl Butoxide	Pass	ND	1	0.0449	0.136
Cypermethrin	Pass	ND	1	0.261	0.790	Prallethrin	Pass	ND	1	0.0814	0.247
Diazinon	Pass	ND	1	0.0344	0.104	Propiconazole	Pass	ND	1	0.0830	0.251
Dichlorvos	Pass	ND	1	0.175	0.530	Propoxur	Pass	ND	1	0.0304	0.0920
Dimethoate	Pass	ND	1	0.0484	0.147	Pyrethrins	Pass	ND	1	0.0388	0.118
Ethoprophos	Pass	ND	1	0.0919	0.278	Pyridaben	Pass	ND	1	0.207	0.626
Etofenprox	Pass	ND	1	0.238	0.721	Spinosad	Pass	ND	1	0.0325	0.0984
Etoxazole	Pass	ND	1	0.0490	0.148	Spiromesifen	Pass	ND	1	0.0614	0.186
Fenpyroximate	Pass	ND	1	0.00144	0.00439	Spirotetramat	Pass	ND	1	0.0521	0.158
Fipronil	Pass	ND	1	0.111	0.335	Tebuconazole	Pass	ND	1	0.0793	0.240
Flonicamid	Pass	ND	1	0.0945	0.286	Thiacloprid	Pass	ND	1	0.0606	0.184
Fludioxonil	Pass	ND	1	0.0609	0.185	Thiamethoxam	Pass	ND	1	0.0406	0.123
Hexythiazox	Pass	ND	1	0.217	0.657	Trifloxystrobin	Pass	ND	1	0.0395	0.120

Mycotoxin Results **Pass** **11/26/2020**

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		2.93	3.90
Aflatoxin B2		ND		2.93	3.90
Aflatoxin G1		ND		2.93	3.90
Aflatoxin G2		ND		2.93	3.90
Ochratoxin A	Pass	ND	<20	2.93	3.90
Total Aflatoxins	Pass	ND	<20	2.93	3.90

Heavy Metals Results **Pass** **11/25/2020**

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	0.00165	1.72
Cadmium	Pass	< LOQ	4	0.0000137	1.72
Lead	Pass	< LOQ	6	0.00199	1.72
Mercury	Pass	ND	2	0.00148	1.72

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	Isobutane		NT	NT	NT	NT
Acetonitrile		NT	NT	NT	NT	Isopropanol		NT	NT	NT	NT
Benzene		NT	NT	NT	NT	Methanol		NT	NT	NT	NT
Butanes		NT	NT	NT	NT	n-Pentane		NT	NT	NT	NT
Chloroform		NT	NT	NT	NT	Tetrahydrofuran		NT	NT	NT	NT
Ethanol		NT	NT	NT	NT	Toluene		NT	NT	NT	NT
Heptanes		NT	NT	NT	NT	Total Xylenes		NT	NT	NT	NT
n-Hexane		NT	NT	NT	NT						

Nelson Lazaga, Ph.D
Laboratory Director
Date: 12/7/2020

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Steep Hill VERIFIED Certificate of Analysis HI94627

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