Hawaiian Choice CBD **Independant Lab Report**

Markings in RED are by Hawaiian Choice to highlight key findings

Pet Tinct

Test Summary

Batch 6629
View any other batch by scanning QR code on the box or visit our website

THC None Detected

CBD 14.7 mg per ml
- Bottle 30 ml = 441 mg
- Dropper 0.25 ml = 3.68 mg

Broad Spectrum
CBG & CBN also detected in significant levels (2.01 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: 6629
Steep Hill ID: HI95043
Batch ID:
State ID:
Sample Type: Tincture
Date Received: 12/2/2020
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
Not Detected
Not Detected
Not Detected

Total CBD
1.58 %
15.8 mg/g
14.7 mg/mL

Total Cannabinoids
1.80 %
18.0 mg/g
16.7 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 12/5/2020
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 12/4/2020
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	1.58	15.8	14.7	0.00987	0.0104
CBDA	ND	ND	ND	0.00987	0.0178
CBDV	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT
CBG	0.113	1.13	1.05	0.00987	0.0114
CBGA	NT	NT	NT	NT	NT
CBN	0.103	1.03	0.962	0.00987	0.00987
THC	ND	ND	ND	0.00987	0.00987
delta-8-THC	NT	NT	NT	NT	NT
THCA	ND	ND	ND	0.00987	0.0227
THCV	NT	NT	NT	NT	NT
THCVA	NT	NT	NT	NT	NT
Total	1.80	18.0	16.7		

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

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Laboratory Director
Date: 12/7/2020

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

Pet 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** **12/7/2020**

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	0.251	0.759	Imazalil	Pass	ND	1	0.0490	0.149
Acephate	Pass	ND	1	0.0716	0.217	Imidacloprid	Pass	ND	1	0.0711	0.215
Acequinocyl	Pass	ND	1	0.00365	0.987	Kresoxim-methyl	Pass	ND	1	0.0672	0.204
Acetamiprid	Pass	ND	1	0.119	0.360	Malathion	Pass	ND	1	0.0614	0.186
Aldicarb	Pass	ND	1	0.0394	0.119	Metalaxyl	Pass	ND	1	0.0588	0.178
Azoxystrobin	Pass	ND	1	0.0912	0.277	Methiocarb	Pass	ND	1	0.100	0.304
Bifenazate	Pass	ND	1	0.105	0.319	Methomyl	Pass	ND	1	0.0390	0.118
Bifenthrin	Pass	ND	1	0.207	0.626	Methyl Parathion	Pass	ND	1	0.149	0.451
Boscalid	Pass	ND	1	0.215	0.652	MGK-264	Pass	ND	1	0.195	0.591
Carbaryl	Pass	ND	1	0.0417	0.126	Myclobutanil	Pass	ND	1	0.0604	0.183
Carbofuran	Pass	ND	1	0.0292	0.0886	Naled	Pass	ND	1	0.0556	0.169
Chlorantraniliprole	Pass	ND	1	0.0896	0.272	Oxamyl	Pass	ND	1	0.0387	0.117
Chlorfenapyr	Pass	ND	1	0.0385	0.117	Paclobutrazol	Pass	ND	1	0.0392	0.119
Chlorpyrifos	Pass	ND	1	0.0880	0.267	Permethrin	Pass	ND	1	0.267	0.810
Clofentezine	Pass	ND	1	0.166	0.504	Phosmet	Pass	ND	1	0.139	0.420
Cyfluthrin	Pass	ND	1	0.414	0.987	Piperonyl Butoxide	Pass	ND	1	0.0454	0.138
Cypermethrin	Pass	ND	1	0.264	0.799	Prallethrin	Pass	ND	1	0.0824	0.250
Diazinon	Pass	ND	1	0.0348	0.106	Propiconazole	Pass	ND	1	0.0840	0.254
Dichlorvos	Pass	ND	1	0.177	0.536	Propoxur	Pass	ND	1	0.0307	0.0931
Dimethoate	Pass	ND	1	0.0490	0.148	Pyrethrins	Pass	ND	1	0.0393	0.119
Ethoprophos	Pass	ND	1	0.0930	0.282	Pyridaben	Pass	ND	1	0.209	0.633
Etofenprox	Pass	ND	1	0.241	0.730	Spinosad	Pass	ND	1	0.0329	0.0996
Etoxazole	Pass	ND	1	0.0495	0.150	Spiromesifen	Pass	ND	1	0.0622	0.188
Fenpyroximate	Pass	ND	1	0.00146	0.00444	Spirotetramat	Pass	ND	1	0.0528	0.160
Fipronil	Pass	ND	1	0.112	0.339	Tebuconazole	Pass	ND	1	0.0802	0.243
Flonicamid	Pass	ND	1	0.0956	0.290	Thiacloprid	Pass	ND	1	0.0613	0.186
Fludioxonil	Pass	ND	1	0.0617	0.187	Thiamethoxam	Pass	ND	1	0.0411	0.125
Hexythiazox	Pass	ND	1	0.219	0.664	Trifloxystrobin	Pass	ND	1	0.0399	0.121

Mycotoxin Results **Pass** **12/7/2020**

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		2.96	3.95
Aflatoxin B2		ND		2.96	3.95
Aflatoxin G1		ND		2.96	3.95
Aflatoxin G2		ND		2.96	3.95
Ochratoxin A	Pass	ND	<20	2.96	3.95
Total Aflatoxins	Pass	ND	<20	2.96	3.95

Heavy Metals Results **Pass** **12/3/2020**

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	< LOQ	10	0.00161	1.68
Cadmium	Pass	ND	4	0.0000134	1.68
Lead	Pass	ND	6	0.00194	1.68
Mercury	Pass	< LOQ	2	0.00144	1.68

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						

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Laboratory Director
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