

Hawaiian Choice CBD

Independent Lab Report

Markings in RED are by Hawaiian Choice to highlight key findings

Fruit Jelly

Test Summary

Batch 6603

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

Broad Spectrum

CBN also detected (beneficial non-psychoactive cannabinoid)

THC None Detected
CBD 25mg per square

Pesticides None Detected
Mycotoxins None Detected
Heavy Metals None Detected



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



CERTIFICATE OF ANALYSIS

Sample Name: **6603** Customer: Hawaiian Choice
Steep Hill ID: HI72585
Batch ID:
State ID:
Sample Type: Edible
Date Received: **8/31/2019**
Date Reported: 9/2/2019
Pkg Mass: 32.0 g
of Servings: 4

OVERALL BATCH SUMMARY:

PASS

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

Cannabinoid Results – Standard Potency

9/1/2019

Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; HI-SOP-024)

Analyte	%	mg/g	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBD	0.31	3.1	99	25	0.0094	0.0096
CBDA	ND	ND	ND	ND	0.0094	0.0169
CBG	ND	ND	ND	ND	0.0094	0.0108
CBN	0.00182	0.0182	0.58	0.145	0.0094	0.0094
THC	ND	ND	ND	ND	0.0094	0.0094
THCA	ND	ND	ND	ND	0.0094	0.022
Total	0.31	3.1	100	25		

Total THC
Not Detected
Total CBD
3.1 mg/g
99 mg/pkg
25 mg/serv

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

Cannabinoid Results – Extended Cannabinoids

NT

Extended cannabinoid analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; HI-SOP-024)

Analyte	%	mg/g	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT	NT	NT
CBD	NT	NT	NT	NT	NT	NT
CBDA	NT	NT	NT	NT	NT	NT
CBDV	NT	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT	NT
CBG	NT	NT	NT	NT	NT	NT
CBN	NT	NT	NT	NT	NT	NT
THC	NT	NT	NT	NT	NT	NT
Δ8-THC	NT	NT	NT	NT	NT	NT
THCA	NT	NT	NT	NT	NT	NT
THCV	NT	NT	NT	NT	NT	NT
THCVa	NT	NT	NT	NT	NT	NT
Total	NT	NT	NT	NT	NT	NT

Nelson Lazaga, Ph.D.
Laboratory Director
Date: 9/3/2019

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Residual Pesticides Results										Pass	9/1/2019
Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS/MS; HI-SOP-025) - Limit units: ug/g = ppm											
Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/g	Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/g
Abamectin B1a	Pass	ND	1	0.23	0.71	Hexythiazox	Pass	ND	1	0.21	0.62
Acephate	Pass	ND	1	0.067	0.20	Imazail	Pass	ND	1	0.046	0.139
Acequinocyl	Pass	ND	1	0.0034	0.92	Imidacloprid	Pass	ND	1	0.067	0.20
Acetamiprid	Pass	ND	1	0.111	0.34	Kresoxim-methyl	Pass	ND	1	0.063	0.191
Aldicarb	Pass	ND	1	0.037	0.112	Malathion	Pass	ND	1	0.058	0.174
Azoxystrobin	Pass	ND	1	0.086	0.26	Metalaxyl	Pass	ND	1	0.055	0.167
Bifenazate	Pass	ND	1	0.099	0.30	Methiocarb	Pass	ND	1	0.094	0.28
Bifenthrin	Pass	ND	1	0.94	0.59	Methomyl	Pass	ND	1	0.037	0.111
Boscalid	Pass	ND	1	0.20	0.61	Methyl Parathion	Pass	ND	1	0.139	0.42
Carbaryl	Pass	ND	1	0.039	0.118	MGK-264	Pass	ND	1	0.183	0.55
Carbofuran	Pass	ND	1	0.027	0.083	Myclobutahil	Pass	ND	1	0.057	0.171
Chlorantraniliprole	Pass	ND	1	0.084	0.25	Naled	Pass	ND	1	0.052	0.158
Chlorfenapyr	Pass	ND	1	0.036	0.109	Oxamyl	Pass	ND	1	0.036	0.110
Chlorpyrifos	Pass	ND	1	0.082	0.25	Pacllobutrazol	Pass	ND	1	0.037	0.111
Clofentezine	Pass	ND	1	0.156	0.47	Permethrin	Pass	ND	1	0.25	0.76
Cyfluthrin	Pass	ND	1	0.39	0.92	Phosmet	Pass	ND	1	0.130	0.39
Cypermethrin	Pass	ND	1	0.25	0.75	Piperonyl Butoxide	Pass	ND	1	0.043	0.129
Diazinon	Pass	ND	1	0.033	0.099	Prallethrin	Pass	ND	1	0.077	0.23
Dichlorvos	Pass	ND	1	0.166	0.50	Propiconazole	Pass	ND	1	0.079	0.24
Dimethoate	Pass	ND	1	0.046	0.139	Propoxur	Pass	ND	1	0.029	0.087
Ethoprophos	Pass	ND	1	0.087	0.26	Pyrethrins	Pass	ND	1	0.037	0.112
Etofenprox	Pass	ND	1	0.23	0.68	Pyridaben	Pass	ND	1	0.196	0.59
Etoxazole	Pass	ND	1	0.046	0.141	Spinosad	Pass	ND	1	0.031	0.093
Fenpyroximate	Pass	ND	1	0.00137	0.0042	Spiromesifen	Pass	ND	1	0.058	0.177
Flipronil	Pass	ND	1	0.105	0.32	Spirotetramat	Pass	ND	1	0.049	0.150
Flonicamid	Pass	ND	1	0.090	0.27	Tebuconazole	Pass	ND	1	0.075	0.23
Fludioxonil	Pass	ND	1	0.058	0.175	Thiacloprid	Pass	ND	1	0.057	0.174

Mycotoxin Results							Pass	9/1/2019
Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS; HI-SOP-025) - Limit units: ug/kg = ppb								
Analyte	Pass/Fail	ug/kg	Limit	LOD ug/kg	LOQ ug/kg			
Aflatoxin B1	ND	ND	4.8	14.5				
Aflatoxin B2	ND	ND	4.4	13.3				
Aflatoxin G1	ND	ND	4.6	13.8				
Aflatoxin G2	ND	ND	6.6	20.0				
Ochratoxin A	Pass	ND	<20	8.5	26			
Total Aflatoxins	Pass	ND	<20	6.6	20.0			

Heavy Metals Results						Pass	9/1/2019
Heavy metals analysis utilizing Atomic Absorption Spectroscopy (AAS; HI-SOP-015) - Limit units: ug/g = ppm							
Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/g		
Arsenic	Pass	< LOQ	10	0.00123	1.28		
Cadmium	Pass	ND	4	0.000103	1.28		
Lead	Pass	ND	6	0.00149	1.28		
Mercury	Pass	< LOQ	2	0.00110	1.28		

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	ug/g	Limit	LOD ug/g	LOQ ug/g	Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/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
Bulane	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: 9/3/2019

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Microbial None Detected
Bacteria, spores, molds, fungus

Shelf Life Stability Pass
Low water activity (aW <0.86) and high acidity (pH <4.5) for improved anti-microbial shelf life and stability.



CERTIFICATE OF ANALYSIS

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

Analyte	%	mg/g	LOD mg/g	LOQ mg/g
Caryophyllene Oxide	NT	NT	NT	NT
β-Caryophyllene	NT	NT	NT	NT
Citronellol	NT	NT	NT	NT
α-Humulene	NT	NT	NT	NT
Linalool	NT	NT	NT	NT
β-Myrcene	NT	NT	NT	NT
Total	NT	NT	NT	NT

Terpenoid Results - Extended Terpenes NT
Extended terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS)

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

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

Microbial Impurities Results Pass 9/2/2019

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

Hawaiian Choice
P.O. Box 61242
Honolulu, HI, 96839
Attn: Jared Dalgamouni
Project Name: 6603

FQ Labs
3170 Ualena Street, Unit A
Honolulu, HI 96819
Phone: 808-839-9444, Fax: 808-839-9744

CERTIFICATE OF ANALYSIS

Received: 08/30/2019 @ 11:56 AM
Completed: 08/30/2019 @ 1:00 PM
Project Number: 190830-3472-008
Temperature: 32.1 °C
Client Project No: 6604

Analysis	Results	Units	MDL	Test Method	Analyzed	By
Water Activity	0.64	aW	-	AOAC 978.18	08/30/2019 11:48 AM	JA
pH	2.87	pH unit	0.10	AOAC 981.12	08/30/2019 11:48 AM	JA

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

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Approved By: *Jared Dalgamouni*
Monday, September 09, 2019

Nelson Lazaga, Ph.D.
Laboratory Director
Date: 9/3/2019

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