



# Full Spectrum Hemp-Derived CBG 2000mg CBG:CBD Tincture *Natural*

## Batch Specific Information

<b>Product Name:</b>	Kōkua CBG:CBD Tincture, 1000mg CBG 1000mg CBD, <i>Natural</i>
<b>Product Description:</b>	Full Spectrum Oil-Based Tincture, 1 fl oz (30 mL)
<b>Product Ingredients:</b>	Coconut MCT Oil*, Full Spectrum Hemp Extract^
<b>Batch No.:</b>	BP21T50-67
<b>Best if Used By:</b>	September 2022
<b>Date of Production:</b>	February 2021
<b>Hemp Extraction Method:</b>	CO <sub>2</sub> Extraction, Winterization
<b>Farm Location:</b>	Crestwood, Kentucky

### Produced By:

Botanical Processing LLC  
PO Box 32127  
Louisville, KY 40232  
(502) 742-7151  
customer@botanical-processing.com  
aloha@kokuacreations.com

\*USDA Certified Organic Ingredient

^Produced in-house from locally sourced hemp flower

This product contains less than 0.3% THC.  
These statements have not been evaluated by the Food  
and Drug Administration. This product is not intended to  
diagnose, treat, cure, or prevent any disease.



**Marie Grinstead, PhD**

*Born in Hawai'i, Raised in Kentucky.*

## ABOUT KŌKUA

In 2015, Marie founded Botanical Processing, a CO<sub>2</sub> extraction laboratory, while working towards her doctorate in engineering. As an extraction scientist, she focuses on researching and developing optimal CO<sub>2</sub> extraction methods as part of producing safe and effective natural products. Marie is humbled by the opportunity to share her wellness creations, and Kōkua is uniquely made using her preferred ingredients and methods.

With no better way to express her motivation behind the brand, she chose the Hawaiian word, Kōkua, meaning *the desire to help, aid, and assist others*. When she is not in the lab, Marie spends time with her family and devotes efforts towards her dance studio, 'Ike Roa, which exists to share and perpetuate the beautiful, diverse cultures of Polynesia.



# Certificate of Analysis



**BP01T50-67**  
**Matrix:** Derivative  
**Accession Number:** 042621UD0005  
**Harvest/Lot ID:**  
**Seed to Sale:** \*  
**Batch Date:** 04/26/21  
**Batch #:**  
**Sample Size Received:** 1 units  
**Retail Product Size:**  
**Ordered:** 04/26/21  
**Completed:** 04/29/21  
**Expires:** 04/28/22  
**Sampling Method:** SOP Client Method

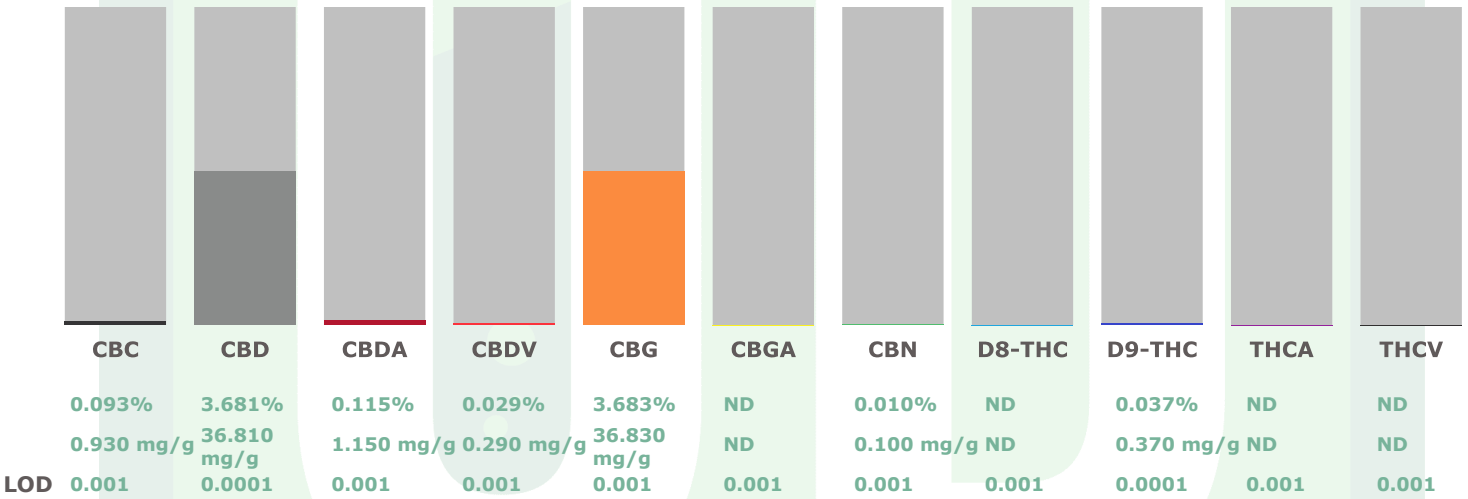
Apr 29, 2021 | Botanical  
Processing LLC

Louisville, Kentucky,  
(502) 742-7151



## CANNABINOID RESULTS

<b>Total THC</b> <b>0.037%</b>	<b>Total CBD</b> <b>3.782%</b>	<b>Total Cannabinoids</b> <b>7.634%</b>
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Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-PDA). (Method: SOP.KY.02.005) sample prep and Shimadzu High Sensitivity Method SOP.KY.02.012 for analysis. LOQ for all cannabinoids is 1 mg/L. % = %w/w = Percent (Weight of Analyte/Weight Product) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected. \*\*Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation Total THC = THC + (THCa\*0.877) Total CBD = CBD + (CBDA\*0.877) null

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**David Greene**  
Lab Director  
State License # 19-05-02P  
ISO Accreditation # PJLA  
ISO17025

Signature

04/29/21

Signed On



Certificate of Analysis

Feb 06, 2021 | Botanical Processing LLC

Louisville, Kentucky,
(502) 742-7151



BP01T50
Matrix: Derivative
Accession Number: 210202KA0001D
Harvest/Lot ID:
Seed to Sale: \*
Batch Date: 02/02/21
Batch #:
Sample Size Received: 1 units
Retail Product Size: 1 units
Ordered: 02/02/21
Completed: 02/06/21
Expires: 02/05/22
Sampling Method: SOP Client Method



Pesticides

Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail, Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Lists various pesticides like cis-permethrin, ABAMECTIN B1A, etc., with their respective results and action levels.

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). \*\*

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David Greene
Lab Director
State License # 19-05-02P

Signature

02/06/21
Signed On



# Certificate of Analysis

Botanical Processing LLC

Louisville, Kentucky,  
Telephone: (502) 742-7151  
Email: customercare@botanical-



BP01T50

Matrix: Derivative

Accession Number: 210202KA0001D

Harvest/Lot ID:

Seed to Sale: \*

Batch Date: 02/02/21

Batch #:

Sample Size Received: 1 units

Retail Product Size: 1 units

Ordered: 02/02/21

Completed: 02/06/21

Expires: 02/05/22

Sampling Method: SOP Client Method

## Mycotoxins

Analyte	LLOQ	Result	Units	Action Level	Pass / Fail	Analyte	LLOQ	Result	Units	Action Level	Pass / Fail
Aflatoxin B1	0.001	ND	ppm	0.2	PASS	Aflatoxin B2	0.001	ND	ppm	0.2	PASS
Aflatoxin G1	0.001	ND	ppm	0.2	PASS	Aflatoxin G2	0.001	ND	ppm	0.2	PASS
Ochratoxin A+	0.001	ND	ppm	0.2	PASS						

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be 20g/Kg. Ochratoxins must be 20g/Kg

## Residual Solvents

Solvent	LLOQ	Result	Units	Action Level (PPM)	Pass/Fail
1,1-DICHLOROETHENE	2.0	ND	ppm	8	PASS
1,2-DICHLOROETHENE	0.24	ND	ppm	1870	PASS
2-PROPANOL	60.0	ND	ppm	5000	PASS
ACETONE	90.0	ND	ppm	5000	PASS
ACETONITRILE	7.2	ND	ppm	410	PASS
BUTANES (N-BUTANE)	50.0	ND	ppm	5000	PASS
CHLOROFORM	0.24	ND	ppm	60	PASS
DICHLOROMETHANE	15.0	ND	ppm	600	PASS
ETHANOL	120.0	ND	ppm	5000	PASS
ETHYL ACETATE	48.0	ND	ppm	5000	PASS
ETHYL ETHER	60.0	ND	ppm	5000	PASS
ETHYLENE OXIDE	0.6	ND	ppm	50	PASS
HEPTANE	60.0	ND	ppm	5000	PASS
HEXANES	6.0	ND	ppm	290	PASS
METHANOL	30.0	ND	ppm	3000	PASS
PENTANES	90.0	ND	ppm	2500	PASS
PROPANE	80.0	ND	ppm	5000	PASS
TOLUENE	18.0	ND	ppm	1068	PASS
TRICHLOROETHENE	3.0	ND	ppm	80	PASS
XYLENES	18.0	ND	ppm	2170	PASS
XYLENES-M (1,3-DIMETHYLBENZENE)	18.0	ND	ppm	2170	PASS
XYLENES-O (1,2-DIMETHYLBENZENE)	18.0	ND	ppm	2170	PASS
XYLENES-P (1,4-DIMETHYLBENZENE)	18.0	ND	ppm	2170	PASS

## Heavy Metals

Metal	LLOQ	Result	Unit	Action Level	Pass / Fail
Arsenic	0.02	ND	ppm	3	PASS
Cadmium	0.02	ND	ppm	0.3	PASS
Lead	0.02	ND	ppm	10	PASS
Mercury	0.02	ND	ppm	3	PASS

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. \*Action Limits based on Colorado Regulations.

## Microbials

Analyte	Result
ASPERGILLUS_FLAVUS .	not present in 1 gram.
ASPERGILLUS_FUMIGATUS .	not present in 1 gram.
ASPERGILLUS_NIGER .	not present in 1 gram.
ASPERGILLUS_TERREUS_1J2 .	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP .	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE .	not present in 1 gram.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

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Signature

02/06/21

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