



Full Spectrum Hemp-Derived CBD 1000mg Tincture *Natural*

Batch Specific Information

Product Name:	Kōkua 1000mg CBD Tincture, <i>Natural</i>
Product Description:	Full Spectrum Oil-Based Tincture, 1 fl oz (30 mL)
Product Ingredients:	Coconut MCT Oil*, Full Spectrum Hemp Extract^
Batch No.:	BP21T55-34
Best if Used By:	September 2022
Date of Production:	February 2021
Hemp Extraction Method:	CO ₂ Extraction <i>In-House</i>
Farm Location:	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 CO₂ extraction laboratory, while working towards her doctorate in engineering. As an extraction scientist, she focuses on researching and developing optimal CO₂ 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



BP21T55
Matrix: Derivative
Accession Number: 210202KA0002D
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: 02/04/21
Expires: 02/03/22
Sampling Method: SOP Client Method

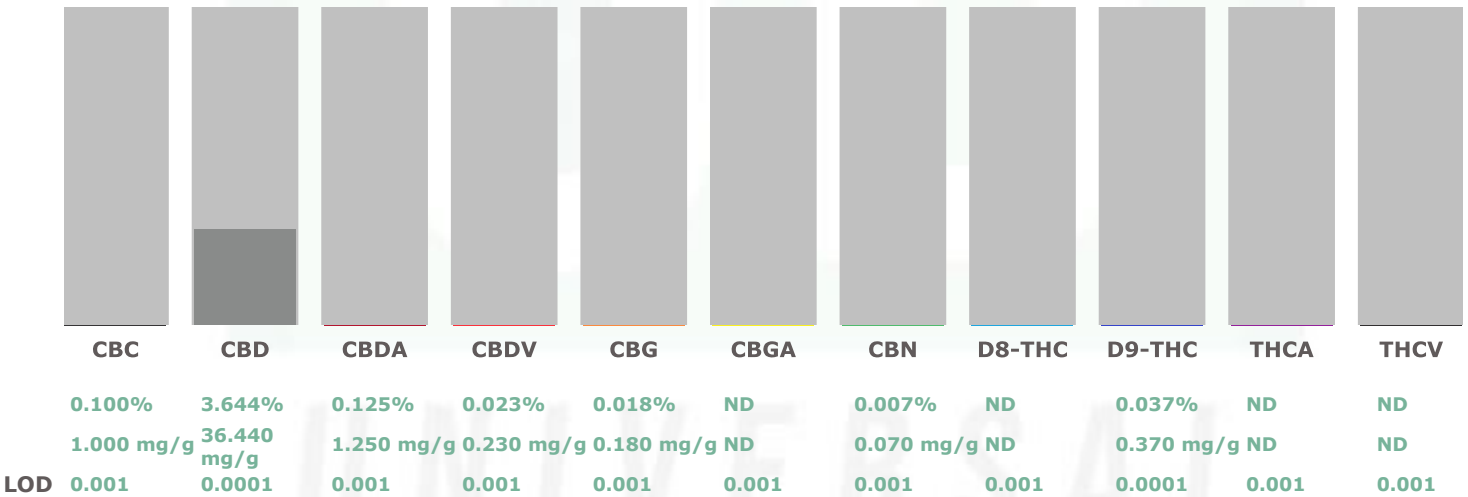
Feb 04, 2021 | Botanical
Processing LLC

Louisville, Kentucky,
(502) 742-7151



CANNABINOID RESULTS

Total THC 0.037%	Total CBD 3.754%	Total Cannabinoids 3.939%
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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)

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

Signature

02/04/21

Signed On



Certificate of Analysis

Mar 17, 2021 | Botanical Processing LLC

Louisville, Kentucky,
(502) 742-7151



BP21T55
Matrix: Derivative
Accession Number: 030921UD0001
Harvest/Lot ID:
Seed to Sale: *
Batch Date: 03/09/21
Batch #:
Sample Size Received: 1 units
Retail Product Size:
Ordered: 03/09/21
Completed: 03/17/21
Expires: 03/16/22
Sampling Method: SOP Client Method



Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Includes a large 'PASSED' label on the right. Lists various pesticides like cis-permethrin, ABAMECTIN B1A, etc.

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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Certificate of Analysis

Botanical Processing LLC

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Email: customercare@botanical-



BP21T55
Matrix: Derivative
Accession Number: 030921UD0001
Harvest/Lot ID:
Seed to Sale: *
Batch Date: 03/09/21
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Sampling Method: SOP Client Method

Mycotoxins PASSED

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 PASSED

Solvent	LLOQ	Result	Units	Action Level (PPM)	Pass/Fail
2-Propanol	60.0	ND	ppm	5000	PASS
Acetone	60	ND	ppm	5000	PASS
Acetonitrile	60	ND	ppm	410	PASS
Butane	200	ND	ppm	5000	PASS
Ethanol	80	ND	ppm	5000	PASS
Ethyl Acetate	60	ND	ppm	5000	PASS
Ethyl Ether	40	ND	ppm	5000	PASS
Heptane	40	ND	ppm	5000	PASS
Hexane	40	ND	ppm	290	PASS
Methanol	40	ND	ppm	3000	PASS
Pentane	60	ND	ppm	5000	PASS
Propane	400	ND	ppm	5000	PASS
Toluene	40	ND	ppm	890	PASS
XYLENES	18.0	ND	ppm	2170	PASS
M/P-Xylene	80	ND	ppm	2170	PASS
O-Xylene	40	ND	ppm	2170	PASS
Total Xylenes	120	ND	ppm	2170	PASS

Heavy Metals PASSED

Metal	LLOQ	Result	Unit	Action Level	Pass / Fail
Arsenic	0.2	ND	ppm	3	PASS
Cadmium	0.2	ND	ppm	0.3	PASS
Lead	0.2	ND	ppm	10	PASS
Mercury	0.2	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 PASSED

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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