



# Certificate of Analysis



**Whole Flower USDA Organic CBD Oil**  
**Matrix:** Derivative  
**Accession Number:** 052621UD0018  
**Harvest/Lot ID:** 01  
**Seed to Sale:** \*  
**Batch Date:** 05/21/21  
**Batch #:** 521110  
**Sample Size Received:** 15 ml  
**Retail Product Size:** 15 ml  
**Ordered:** 05/26/21  
**Completed:** 05/29/21  
**Expires:** 05/28/22  
**Sampling Method:** SOP Client Method

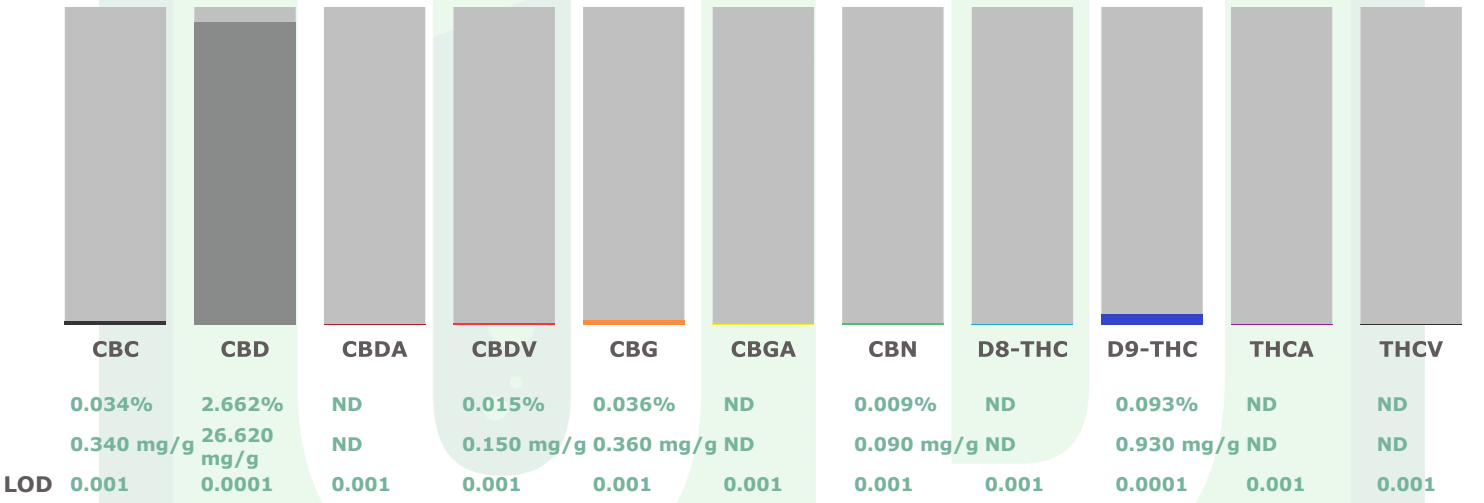
May 29, 2021 | Cornbread Hemp



Louisville, KENTUCKY,  
(502) 554-6857

## CANNABINOID RESULTS

<b>Total THC</b> <b>0.093%</b> THC/Container :13.113 mg	<b>Total CBD</b> <b>2.662%</b> CBD/Container :375.342 mg	<b>Total Cannabinoids</b> <b>2.849%</b> Cannabinoids/Container :401.709 mg
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Analyzed by	Date	Instrument used	Analysis Method
	05/27/2021	Shimadzu HPLC w/ PDA	

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)

<b>Filth &amp; Foreign Matter</b>	<b>PASSED</b>
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Analyzed by	Date	Instrument used	Analysis Method
	05/28/2021	Microscope (Amscope)	

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection. SOP.KY.02.11

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**David Greene**  
Lab Director  
State License # 19-05-02P  
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Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail, Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Includes a large 'PASSED' watermark. Lists various pesticides like CARBOFURAN, ETHOPROPHOS, etc., all with 'PASS' results.

Summary table with 4 columns: Analyzed by, Date, Instrument used, Analysis Method. Values: Analyzed by, Date: 05/28/2021, Instrument used: Shimadzu LCMSMS 8060, Analysis Method.

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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## Mycotoxins PASSED

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

Analyzed by	Date	Instrument used	Analysis Method
	05/28/2021	Shimadzu LCMSMS 8060	

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
Heptane	40	ND	ppm	5000	PASS
Ethyl Acetate	60	ND	ppm	5000	PASS
M/P-Xylene	80	ND	ppm	2170	PASS
Acetonitrile	60	ND	ppm	410	PASS
Butane	200	ND	ppm	5000	PASS
Acetone	60	ND	ppm	5000	PASS
Methanol	40	ND	ppm	3000	PASS
Ethyl Ether	40	ND	ppm	5000	PASS
Pentane	60	ND	ppm	5000	PASS
Ethanol	80	ND	ppm	5000	PASS
Total Xylenes	120	ND	ppm	2170	PASS
O-Xylene	40	ND	ppm	2170	PASS
2-Propanol	60.0	ND	ppm	5000	PASS
Isobutane	200	ND	ppm	5000	PASS
Hexane	40	ND	ppm	290	PASS
Propane	400	ND	ppm	5000	PASS
Toluene	40	ND	ppm	890	PASS

Analyzed by	Date	Instrument used	Analysis Method
	05/27/2021	Shimadzu GC 2010+	

## Heavy Metals PASSED

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

Analyzed by	Date	Instrument used	Analysis Method
	05/27/2021	Shimadzu ICP/MS	

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_FUMIGATUS .	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP .	not present in 1 gram.
ASPERGILLUS_NIGER .	not present in 1 gram.
ASPERGILLUS_TERREUS_112 .	not present in 1 gram.
ASPERGILLUS_FLAVUS .	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE .	not present in 1 gram.

Analyzed by	Date	Instrument used	Analysis Method
	05/28/2021	PathogenDX	

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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Terpenes								<b>TESTED</b>			
Terpenes	LLOQ	Units	Result (%)	Terpenes	LLOQ	Units	Result (%)	Terpenes	LLOQ	Units	Result (%)
3-CARENE	0.005	%	ND	ALPHA-BISABOLOL	0.005	%	0.013	ALPHA-BISABOLOL	0.005	%	0.013
ALPHA-CEDRENE	0.005	%	ND	ALPHA-HUMULENE	0.005	%	0.016	ALPHA-HUMULENE	0.005	%	0.016
ALPHA-PHELLANDRENE	0.005	%	ND	ALPHA-PINENE	0.005	%	ND	ALPHA-PINENE	0.005	%	ND
ALPHA-TERPINENE	0.005	%	ND	BETA-MYRCENE	0.005	%	ND	BETA-MYRCENE	0.005	%	ND
BETA-PINENE	0.005	%	ND	BORNEOL	0.005	%	ND	BORNEOL	0.005	%	ND
CAMPHENE	0.005	%	ND	CAMPOR	0.005	%	ND	CAMPOR	0.005	%	ND
CARYOPHYLLENE Oxide	0.005	%	0.009	CEDROL	0.005	%	ND	CEDROL	0.005	%	ND
CIS-NEROLIDOL	0.005	%	ND	EUCALYPTOL	0.005	%	ND	EUCALYPTOL	0.005	%	ND
FENCHONE	0.005	%	ND	FENCHYL ALCOHOL	0.005	%	ND	FENCHYL ALCOHOL	0.005	%	ND
GAMMA-TERPINENE	0.005	%	ND	GERANIOL	0.005	%	ND	GERANIOL	0.005	%	ND
GERANYL ACETATE	0.005	%	ND	GUAIOL	0.005	%	ND	GUAIOL	0.005	%	ND
HEXAHYDROTHYMOL	0.005	%	ND	ISOBORNEOL	0.005	%	ND	ISOBORNEOL	0.005	%	ND
ISOPULEGOL	0.005	%	ND	LIMONENE	0.005	%	ND	LIMONENE	0.005	%	ND
LINALOOL	0.005	%	ND	NEROL	0.005	%	ND	NEROL	0.005	%	ND
OCIMENE	0.005	%	ND	PULEGONE	0.005	%	ND	PULEGONE	0.005	%	ND
SABINENE	0.005	%	ND	SABINENE HYDRATE	0.005	%	ND	SABINENE HYDRATE	0.005	%	ND
TERPINEOL	0.005	%	ND	TERPINOLENE	0.005	%	ND	TERPINOLENE	0.005	%	ND
TRANS-NEROLIDOL	0.005	%	ND	TRANCARYOPHYLLENE	0.005	%	0.041	TRANCARYOPHYLLENE	0.005	%	0.041
VALENCENE	0.005	%	ND								
<b>Total</b>							0.079				
<b>Analyzed by</b>	<b>Date</b>	<b>Instrument used</b>	<b>Analysis Method</b>								
	05/27/2021	Shimadzu Nexus GC 2030									

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