



Certificate of Analysis



Whole Flower USDA Organic CBD oil-375mg

Matrix: Derivative

Accession Number: 210126KA0001D

Harvest/Lot ID: CB01082110-01

Seed to Sale: *

Batch Date: 01/26/21

Batch #: CB01082110-01

Sample Size Received: 1 units

Retail Product Size: 1 units

Ordered: 01/26/21

Completed: 01/30/21

Expires: 01/30/22

Sampling Method: SOP Client Method

Jan 30, 2021 | Cornbread Hemp

Louisville, KENTUCKY,
(502) 554-6857

CANNABINOID RESULTS

Total THC 0.150%	Total CBD 3.610%	Total Cannabinoids 3.693%
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Filth & Foreign Matter

PASSED

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 used for inspection. SOP.KY.02.11

	CBC	CBD	CBDa	CBDV	CBG	CBGA	CBN	D8-THC	D9-THC	THCA	THCV
	0.039%	3.610%	ND	ND	0.044%	ND	ND	0.000%	0.150%	ND	ND
	0.390 mg/g	36.100 mg/g	ND	ND	0.440 mg/g	ND	ND	0.000 mg/g	1.500 mg/g	ND	ND
LOD	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.001	0.001

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)

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

Heavy Metals	PASSED
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Metal	LLOQ	Result	Unit	Action Level (PPM)
Arsenic	0.02	ND	ppm	3
Cadmium	0.02	ND	ppm	0.3
Mercury	0.02	ND	ppm	1
Lead	0.02	ND	ppm	10

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.

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David Greene
Lab Director

State License # 19-05-02P
ISO Accreditation #
17025:2017 #97164

Signature

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Pesticides PASSED

Pesticides	LLOQ	Result	Units	Action Level	Pesticides	LLOQ	Result	Units	Action Level
FIPRONIL	0.02	ND	ppm	0.4	ACEQUINOCYL	0.05	ND	ppm	2
PROPICONAZOLE	0.01	ND	ppm	0.4	PRALLETHRIN	0.05	ND	ppm	0.2
DAMINOZIDE	0.02	ND	ppm	1	BIFENTHRIN	0.01	ND	ppm	0.2
FENPYROXIMATE	0.01	ND	ppm	0.4	IMIDACLOPRID	0.01	ND	ppm	0.4
DIAZANON	0.01	ND	ppm	0.2	PYRIDABEN	0.01	ND	ppm	0.2
SPIROMESIFEN	0.01	ND	ppm	0.2	PACLOBUTRAZOL	0.01	ND	ppm	0.4
SPIROTETRAMAT	0.02	ND	ppm	0.2	ABAMECTIN B1A	0.02	ND	ppm	0.5
FENHEXAMID	0.005	ND	ppm	0.1	THIAMETHOXAM	0.01	ND	ppm	0.2
OXAMYL	0.01	ND	ppm	1	IMAZALIL	0.01	ND	ppm	0.2
MYCLOBUTANIL	0.01	ND	ppm	0.2	DIMETHOMORPH	0.005	ND	ppm	0.1
ACETAMIPRID	0.01	ND	ppm	0.2	FENOXYCARB	0.01	ND	ppm	0.2
PHOSMET	0.01	ND	ppm	0.2	CHLORPYRIFOS	0.01	ND	ppm	0.2
FLUDIOXONIL	0.01	ND	ppm	0.4	BOSCALID	0.01	ND	ppm	0.4
METHIOCARB	0.01	ND	ppm	0.2	THIACLOPRID	0.01	ND	ppm	0.2
METHOMYL	0.01	ND	ppm	0.4	METALAXYL	0.01	ND	ppm	0.2
CHLORANTRANILIPROLE	0.01	ND	ppm	0.2	MEVINPHOS	0.01	ND	ppm	0.1
CYPERMETHRIN	0.02	ND	ppm	1	DICHLORVOS	0.05	ND	ppm	0.1
ACEPHATE	0.01	ND	ppm	0.4	SPINOSAD (SPINOSYN D)	0.01	ND	ppm	0.2
CARBARYL	0.01	ND	ppm	0.2	FLONICAMID	0.01	ND	ppm	1
MALATHION	0.01	ND	ppm	0.2	COUMAPHOS	0.01	ND	ppm	0.2
Trifloxystrobin	0.01	ND	ppm	0.2	ETHOPROPHOS	0.01	ND	ppm	0.2
ETOFENPROX	0.01	ND	ppm	0.4	KRESOXIM-METHYL	0.01	ND	ppm	0.4
PERMETHRINS (sum)	0.05	ND	ppm	1	AZOXYSTROBIN	0.01	ND	ppm	0.2
- trans-permethrin	0.0118	ND	ppm	0.4	SPINOSAD (SPINOSYN A)	0.01	ND	ppm	0.2
CLOFENTEZINE	0.01	ND	ppm	0.2	SPIROXAMINE	0.01	ND	ppm	0.2
TEBUCONAZOLE	0.01	ND	ppm	0.4	PYRETHRIN I	0.01	ND	ppm	1
SPINETORAM	0.01	ND	ppm	0.5	NALED	0.01	ND	ppm	0.5
PIPERONYL BUTOXIDE	0.01	ND	ppm	2	ALDICARB	0.02	ND	ppm	0.4
BIFENAZATE	0.01	ND	ppm	0.2	HEXYTHIAZOX	0.01	ND	ppm	1
CARBOFURAN	0.01	ND	ppm	0.2	ETOXAZOLE	0.01	ND	ppm	0.2
- cis-permethrin	0.0041	ND	ppm	0.4	PROPOXUR	0.01	ND	ppm	0.2
DIMETHOATE	0.01	ND	ppm	0.2					

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). **

Mycotoxins PASSED

Analyte	LLOQ	Result	Units	Action Level (PPM)	Analyte	LLOQ	Result	Units	Action Level (PPM)
Aflatoxin B1	0.001	ND	ppm	0.2	Aflatoxin B2	0.001	ND	ppm	0.2
Aflatoxin G1	0.001	ND	ppm	0.2	Aflatoxin G2	0.001	ND	ppm	0.2
Ochratoxin A+	0.001	ND	ppm	0.2					

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

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Residual Solvents **PASSED**

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

Terpenes **TESTED**

Solvent	LLOQ	Units	Result	Result (%)
3-CARENE	0.005	%	ND	
GAMMA-TERPINENE	0.005	%	ND	
NEROL	0.005	%	ND	
SABINENE HYDRATE	0.005	%	ND	
ALPHA-TERPINENE	0.005	%	ND	
PULEGONE	0.005	%	ND	
ISOPULEGOL	0.005	%	ND	
GUAIOL	0.005	%	0.011	
ALPHA-CEDRENE	0.005	%	ND	
TERPINEOL	0.005	%	ND	
CAMPHENE	0.005	%	ND	
FENCHONE	0.005	%	ND	
TRANS-NEROLIDOL	0.005	%	ND	
GERANYL ACETATE	0.005	%	ND	
CIS-NEROLIDOL	0.005	%	ND	
HEXAHYDROTHYMOL	0.005	%	ND	
GERANIOL	0.005	%	ND	
ALPHA-BISABOLOL	0.005	%	0.012	
BORNEOL	0.005	%	ND	
CARYOPHYLLENE Oxide	0.005	%	0.011	
BETA-MYRCENE	0.005	%	ND	
SABINENE	0.005	%	ND	
FENCHYL ALCOHOL	0.005	%	ND	
LIMONENE	0.005	%	ND	
CEDROL	0.005	%	ND	
ISOBORNEOL	0.005	%	ND	
ALPHA-HUMULENE	0.005	%	0.008	
ALPHA-PINENE	0.005	%	ND	
TERPINOLENE	0.005	%	ND	
TRANSCARYOPHYLLENE	0.005	%	0.023	
CAMPHOR	0.005	%	ND	
BETA-PINENE	0.005	%	ND	
LINALOOL	0.005	%	ND	
EUCALYPTOL	0.005	%	ND	
VALENCENE	0.005	%	ND	
OCIMENE	0.005	%	ND	
ALPHA-PHELLANDRENE	0.005	%	ND	

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