



Certificate of Analysis



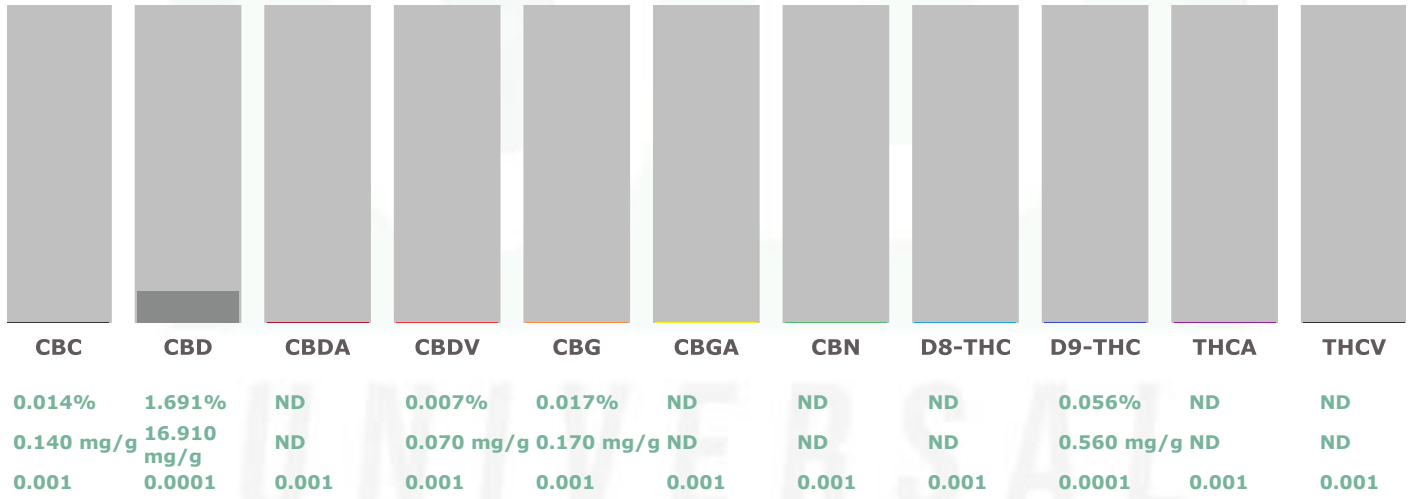
Cats & Dogs CBD oil
Matrix: Edible
Accession Number: 210211KA0001E
Harvest/Lot ID:
Seed to Sale: *
Batch Date: 02/11/21
Batch #: CB01082105-01
Sample Size Received: 1 units
Retail Product Size: 30 units
Ordered: 02/11/21
Completed: 02/17/21
Expires: 02/16/22
Sampling Method: SOP Client Method

Feb 17,2021 | Cornbread Hemp

Louisville, KENTUCKY,
(502) 554-6857

CANNABINOID RESULTS

Table with 3 columns: Total THC (0.056%), Total CBD (1.691%), Total Cannabinoids (1.785%). Includes sub-values for mg/g.



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)

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 use for inspection. SOP.KY.02.11

Pesticides PASSED

Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Lists various pesticides like cis-permethrin, ABAMECTIN B1A, ACEQUINOCYL, trans-permethrin, ACEPHATE, ACETAMIPRID.

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

Signature

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Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Lists various pesticides and their analysis results, all showing 'PASS'.

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 table with 12 columns: Analyte, LLOQ, Result, Units, Action Level, Pass / Fail. Shows results for Aflatoxin B1, Aflatoxin G1, Ochratoxin A+, Aflatoxin B2, and Aflatoxin G2, all 'PASSED'.

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 table with 6 columns: Solvent, LLOQ, Result, Units, Action Level (PPM), Pass/Fail. Shows 1,1-DICHLOROETHENE result as 'PASS'.

Heavy Metals table with 6 columns: Metal, LLOQ, Result, Unit, Action Level, Pass / Fail. Shows results for Arsenic, Cadmium, and Lead, all 'PASS'.

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Residual Solvents		PASSED			
Solvent	LLOQ	Result	Units	Action Level (PPM)	Pass/Fail
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		PASSED			
Metal	LLOQ	Result	Unit	Action Level	Pass / Fail
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		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.

Terpenes		TESTED		
Terpenes	LLOQ	Units	Result (%)	
3-CARENE	0.005	%	ND	██████████
ALPHA-BISABOLOL	0.005	%	0.007	██████████
ALPHA-CEDRENE	0.005	%	ND	██████████
ALPHA-HUMULENE	0.005	%	ND	██████████
ALPHA-PHELLANDRENE	0.005	%	ND	██████████
ALPHA-PINENE	0.005	%	ND	██████████
ALPHA-TERPINENE	0.005	%	ND	██████████
BETA-MYRCENE	0.005	%	ND	██████████
BETA-PINENE	0.005	%	ND	██████████
BORNEOL	0.005	%	ND	██████████
CAMPHENE	0.005	%	ND	██████████
CAMPHOR	0.005	%	ND	██████████

This report shall not be reproduced, unless in its entirety, without written approval from Universal Diagnostics. This report is an Universal Diagnostics certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

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Table with columns: Terpenes, LLOQ, Units, Result (%). Includes a 'TESTED' banner and a list of terpenes such as CARYOPHYLLENE Oxide, CEDROL, CIS-NEROLIDOL, etc., with their respective LLOQ values and results (all ND).

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