



Certificate of Analysis

Feb 19, 2021 | Kentucky
Heritage Hemp Company

Cox's Creek, KY,
8596211797



345

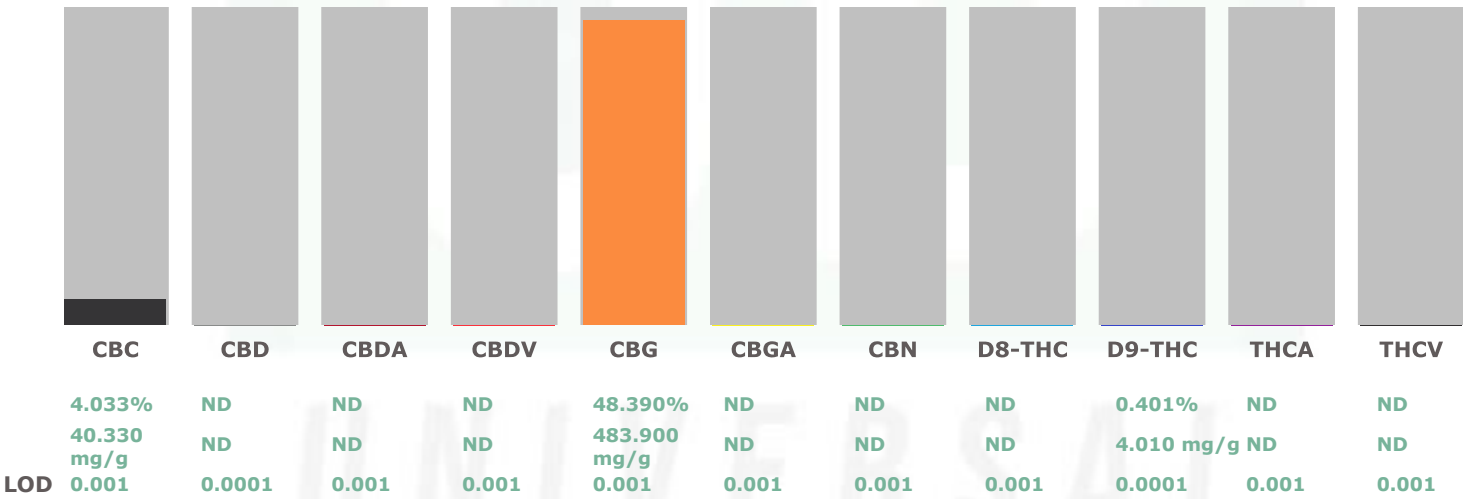
Matrix: Derivative
Accession Number: 210209KA0007D
Harvest/Lot ID:
Seed to Sale: *
Batch Date: 02/09/21
Batch #: 345
Sample Size Received: 1 units
Retail Product Size: 1 units
Ordered: 02/09/21
Completed: 02/19/21
Expires: 02/18/22
Sampling Method: SOP Client Method

Kentucky Heritage Hemp

Subsequent use of this report is restricted to the client.

CANNABINOID RESULTS

Total THC 0.401%	Total CBD 0.000%	Total Cannabinoids 52.824%
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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)

Filth & Foreign Matter	PASSED
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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

Pesticides	PASSED
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Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail	Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail
- cis-permethrin	0.0041	ND	ppm	0.4	PASS	- trans-permethrin	0.0118	ND	ppm	0.4	PASS
ABAMECTIN B1A	0.02	ND	ppm	0.5	PASS	ACEPHATE	0.01	ND	ppm	0.4	PASS
ACEQUINOCYL	0.05	ND	ppm	2	PASS	ACETAMIPRID	0.01	ND	ppm	0.2	PASS
ALDICARB	0.02	ND	ppm	0.4	PASS	AZOXYSTROBIN	0.01	ND	ppm	0.2	PASS

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.

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

02/19/21

Signature

Signed On



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Kentucky Heritage Hemp Company

Cox's Creek, KY,
Telephone: 8596211797
Email: bobby.gaffney@gmail.com



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Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Lists various pesticides and their analysis results, all marked as 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). **

Table for Mycotoxins with columns: Analyte, LLOQ, Result, Units, Action Level, Pass / Fail. Shows results for Aflatoxin B1, G1, G2, and Ochratoxin A+, 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

Table for Residual Solvents with columns: Solvent, LLOQ, Result, Units, Action Level (PPM), Pass/Fail. Shows results for 1,1-DICHLOROETHENE and 1,2-DICHLOROETHENE, both PASSED.

Table for Heavy Metals with columns: Metal, LLOQ, Result, Unit, Action Level, Pass / Fail. Shows results for Arsenic, Cadmium, Lead, and Mercury, all PASSED.

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Residual Solvents PASSED

Table with 6 columns: Solvent, LLOQ, Result, Units, Action Level (PPM), Pass/Fail. Lists various solvents like 2-PROPANOL, ACETONE, ACETONITRILE, etc., all with 'PASS' results.

Microbials PASSED

Table with 2 columns: Analyte, Result. Lists various microorganisms like ASPERGILLUS_FLAVUS, ASPERGILLUS_FUMIGATUS, etc., all with 'not present in 1 gram' results.

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.



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Handwritten signature of David Greene

02/19/21

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