



# Certificate of Analysis



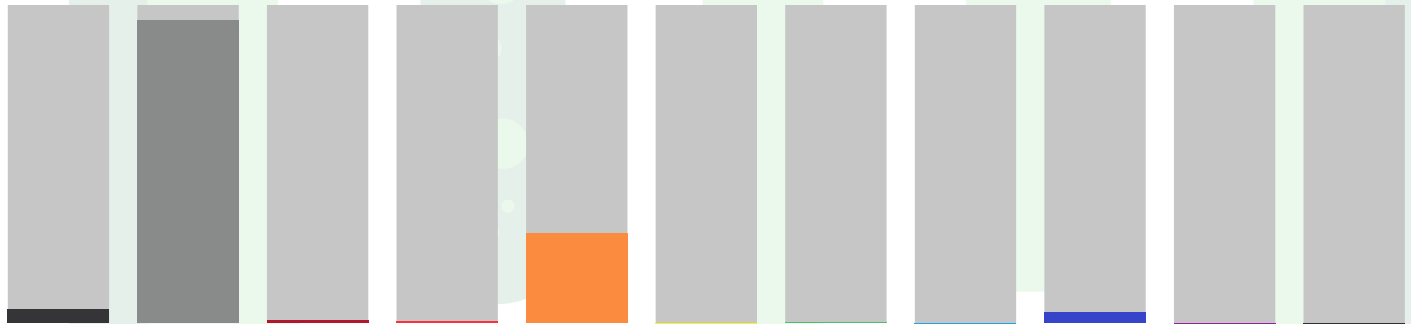
**J205**  
Matrix: Derivative  
Accession Number: 061521UD0005  
Harvest/Lot ID: J205  
Seed to Sale: \*  
Batch Date: 06/15/21  
Batch #: J205  
Sample Size Received: 10 ml  
Retail Product Size:  
Ordered: 06/15/21  
Completed: 06/22/21  
Expires: 06/21/22  
Sampling Method: SOP Client Method

Jun 22, 2021 | Essentially Hemp

NEW CASTLE, KY,  
5025522920

## CANNABINOID RESULTS

<b>Total THC</b> <b>1.839%</b>	<b>Total CBD</b> <b>53.405%</b>	<b>Total Cannabinoids</b> <b>73.760%</b>
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	CBC	CBD	CBDA	CBDV	CBG	CBGA	CBN	D8-THC	D9-THC	THCA	THCv
Conc.(wt%)	2.390	53.081	0.369	0.294	15.663	ND	0.169	ND	1.839	ND	ND
Conc.(mg/g)	23.900	530.810	3.690	2.940	156.630	ND	1.690	ND	18.390	ND	ND
LOQ	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.001	0.001

Analyzed by	Date	Instrument used	Analysis Method
TW	06/16/2021	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
DB	06/16/2021	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 used for inspection. SOP.KY.02.11

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**Daniel Burriss**  
Lab Director  
State License # 19-05-02P

*Daniel Burriss*  
Signature

06/22/21  
Signed On



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Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Includes a large 'PASSED' watermark and lists various pesticides like ABAMECTIN B1A, ACEPHATE, etc.

Summary table with 4 columns: Analyzed by (DB), Date (06/17/2021), Instrument used (Shimadzu LCMSMS 8060), Analysis Method.

Pesticide screening is performed using LC/MS/MS which can screen down to below single digit ppb concentrations for the 57 pesticides analyzed. (Method: SOP.KY.02.022)

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Daniel Burriss, Lab Director, Signature, 06/22/21, Signed On, State License # 19-05-02P



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## 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						

Analyzed by	Date	Instrument used	Analysis Method
DB	06/17/2021	Shimadzu LCMSMS 8060	

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC/MS/MS. (Method: SOP.KY.02.022)

## 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	4628	ppm	5000	PASS
Ethyl Acetate	60	105	ppm	5000	PASS
Ethyl Ether	40	ND	ppm	5000	PASS
Heptane	40	ND	ppm	5000	PASS
Hexane	40	ND	ppm	290	PASS
Isobutane	200	ND	ppm	5000	PASS
M/P-Xylene	80	ND	ppm	2170	PASS
Methanol	40	ND	ppm	3000	PASS
O-Xylene	40	ND	ppm	2170	PASS
Pentane	60	ND	ppm	5000	PASS
Propane	400	ND	ppm	5000	PASS
Toluene	40	ND	ppm	890	PASS
Total Xylenes	120	ND	ppm	2170	PASS

Analyzed by	Date	Instrument used	Analysis Method
DB	06/16/2021	Shimadzu GC 2010+	

Residual solvents testing for 16 common extraction solvents is performed via GC/MS. (Method: SOP.KY.02.024)

## Heavy Metals PASSED

Metal	LLOQ	Result	Unit	Action Level	Pass / Fail
Arsenic	0.2	ND	ppm	0.2	PASS
Cadmium	0.2	ND	ppm	0.2	PASS
Lead	0.2	0.243	ppm		
Mercury	0.2	ND	ppm	0.2	PASS

Analyzed by	Date	Instrument used	Analysis Method
DB	06/16/2021	Shimadzu ICP/MS	

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen for toxic heavy metals (Arsenic, Cadmium, Lead, and Mercury). (Method SOP.KY.02.020)

## 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	not present in 1 gram.
E. Coli	not present in 1 gram.
Salmonella	not present in 1 gram.

Analyzed by	Date	Instrument used	Analysis Method
DG	06/21/2021	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.KY.02.018) 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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Lab Director  
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Signature \_\_\_\_\_ Signed On \_\_\_\_\_



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Table with columns: Terpenes, LLOQ, Units, Result (%), and a 'TESTED' status indicator. Lists various terpenes like 3-CARENE, ALPHA-CEDRENE, etc., with their respective values and detection status.

Summary row: Analyzed by (DB), Date (06/18/2021), Instrument used (Shimadzu Nexus GC 2030), Analysis Method.

Terpene testing for 37 common terpenes is performed via GC/MS. (Method SOP.KY.02.024)

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Signed On: 06/22/21