UNIVERSAL
DIAGNOSTICS°
Universal Diagnostics
673 N. Bardstown Rd.
Mount Washington, KY, 40047

(502) 444-2044 www.UD-Labs.com Lic # 19-05-02P



Certificate Analysis

Matrix: Derivative

Accession Number: 081121UD0003

Harvest/Lot ID: M203 Seed to Sale: *

Batch Date: 08/10/21

Batch #: M203

Sample Size Received: 8 ml

Retail Product Size: ml

Ordered: 08/10/21

Completed: 08/17/21

Expires: 08/16/22

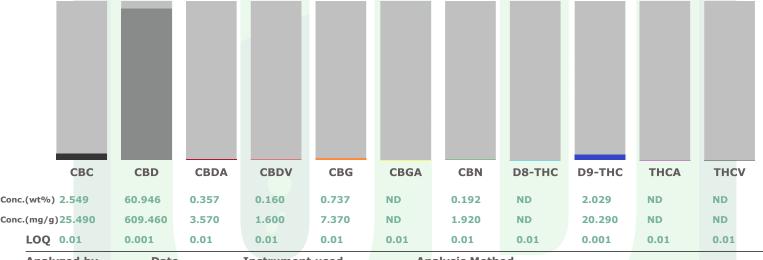
Sampling Method: SOP Client Method

Aug 17,2021 | Essentially Hemp

NEW CASTLE, KY, 5025522920

CANNABINOID RESULTS

Total THC Total CBD Total Cannabinoids 61.259% 2.029% 66.926%



Analyzed by **Date Instrument used Analysis Method** 08/16/2021 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)

Filth & Foreign Matter

PASSED

Analyzed by Date

Instrument used

Analysis Method

08/12/2021 Microscope (Amscope)

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-

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Daniel Burriss

Lab Director State License # 19-05-02P ISO/IEC 17025:2017



08/17/21

Signature

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Essentially Hemp

NEW CASTLE, KY,

Telephone: 5025522920

Email: essentiallyhemp@gmail.com



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Sampling Method: SOP Client Method

Pesticides PASSED

Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail	Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail
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
Bifenazate	0.01	ND	ppm	0.2	PASS	Bifenthrin	0.01	ND	ppm	0.2	PASS
Boscalid	0.01	ND	ppm	0.4	PASS	Carbaryl	0.01	ND	ppm	0.2	PASS
Carbofuran	0.01	ND	ppm	0.2	PASS	Chlorantraniliprole	0.01	ND	ppm	0.2	PASS
Chlorpyrifos	0.01	ND	ppm	0.2	PASS	cis-Permethrin	0.0041	ND	ppm	0.4	PASS
Clofentezine	0.01	ND	ppm	0.2	PASS	Coumaphos	0.01	ND	ppm	0.2	PASS
Cypermethrin	0.02	ND	ppm	1	PASS	Daminozide	0.02	ND	ppm	1	PASS
Diazanon	0.01	ND	ppm	0.2	PASS	Dichlorvos	0.05	ND	ppm	0.1	PASS
Dimethoate	0.01	ND	ppm	0.2	PASS	Dimethomorph	0.005	ND	ppm	0.1	PASS
Ethoprophos	0.01	ND	ppm	0.2	PASS	Etofenprox	0.01	ND	ppm	0.4	PASS
toxazole	0.01	ND	ppm	0.2	PASS	Fenhexamid	0.005	ND	ppm	0.1	PASS
enoxycarb	0.01	ND	ppm	0.2	PASS	Fenpyroximate	0.01	ND	ppm	0.4	PASS
ipronil	0.02	ND	ppm	0.4	PASS	Flonicamid	0.01	ND	ppm	1	PASS
Fludioxonil	0.01	ND	ppm	0.4	PASS	Hexythiazox	0.01	ND	ppm	1	PASS
mazalil	0.01	ND	ppm	0.2	PASS	Imidacloprid	0.01	ND	ppm	0.4	PASS
Cresoxim-Methyl	0.01	ND	ppm	0.4	PASS	Malathion	0.01	ND	ppm	0.2	PASS
Metalaxyl	0.01	ND	ppm	0.2	PASS	Methiocarb	0.01	ND	ppm	0.2	PASS
Methomyl	0.01	ND	ppm	0.4	PASS	Mevinphos	0.01	ND	ppm	0.1	PASS
Myclobutanil	0.01	ND	ppm	0.2	PASS	Naled	0.01	ND	ppm	0.5	PASS
Oxamyl	0.01	ND	ppm	1	PASS	Paclobutrazol	0.01	ND	ppm	0.4	PASS
Permethrins (sum)	0.05	ND	ppm	1	PASS	Phosmet	0.01	ND	ppm	0.2	PASS
Piperonyl Butoxide	0.01	ND	ppm	2	PASS	Prallethrin	0.05	ND	ppm	0.2	PASS
Propiconazole	0.01	ND	ppm	0.4	PASS	Propoxur	0.01	ND	ppm	0.2	PASS
Pyrethrin I	0.01	ND	ppm	1	PASS	Pyridaben	0.01	ND	ppm	0.2	PASS
Spinetoram	0.01	ND	ppm	0.5	PASS	Spinosad (Spinosyn A)	0.01	ND	ppm	0.2	PASS
Spinosad (Spinosyn D)	0.01	ND	ppm	0.2	PASS	Spiromesifen	0.01	ND	ppm	0.2	PASS
Spirotetramat	0.02	ND	ppm	0.2	PASS	Spiroxamine	0.01	ND	ppm	0.2	PASS
Tebuconazole	0.01	ND	ppm	0.4	PASS	Thiacloprid	0.01	ND	ppm	0.2	PASS
hiamethoxam	0.01	ND	ppm	0.2	PASS	trans-Permethrin	0.0118	ND	ppm	0.4	PASS
Trifloxystrobin	0.01	ND	ppm	0.2	PASS						

Analyzed by Date Instrument used Analysis Method

DB 08/12/2021 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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Sampling Method: SOP Client Method

Mycotoxins	PASSED
	1

Analyte	LLOQ	Result	Units	Action	Pass / Fail	Analyte	LLOQ	Result	Units	Action	Pass / Fail
				Level	I all					Level	I all
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
Ocratoxin A+	0.001	ND	ppm	0.2	PASS						

Analyzed by Date Instrument used Analysis Method

DB 08/12/2021 Shimadzu LCMSMS 8060

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

Residual	PASSED
Solvents	PASSED

Solvent		LLOQ	Result	Units	Action Level (PPM)	Pass/Fail
2-Propanol		60	ND	ppm	5000	PASS
Acetone		60	ND	ppm	5000	PASS
Acetonitrile		60	ND	ppm	410	PASS
Butane		200	ND	ppm	5000	PASS
Ethanol		80	2114	ppm	5000	PASS
Ethyl Acetate	:	60	ND	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	5	120	ND	ppm	2170	PASS

Analyzed I	y Date	Instrument used	Analysis Method
DB	08/12/2021	Shimadzu GC 2010+	

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

Metal	LLOQ	Result	Unit	Action Level	Pa: Fai	ss /
Arsenic	0.2	ND	ppm	2	PASS	;
Cadmium	0.2	ND	ppm	2	PASS	;
Lead	0.2	ND	ppm	5	PASS	;
Mercury	0.2	ND	ppm	1	PASS	5

Analyzed by	Date	Instrument เ	used Ar	nalysis	Method
DB	08/12/2021	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
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Analyte Result

Aspergillus Flavus
Aspergillus Fumigatus
Aspergillus Niger
Aspergillus Terreus

E. Coli

Salmonella

not present in 1 gram. not present in 1 gram. not present in 1 gram. not present in 1 gram.

Analyzed by	Date	Instrument used	Analysis Method
DG	08/13/2021	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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Accreditation 113856



and Bris

08/17/21

not present in 1 gram.

not present in 1 gram.

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