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

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

Certificate of Analysis

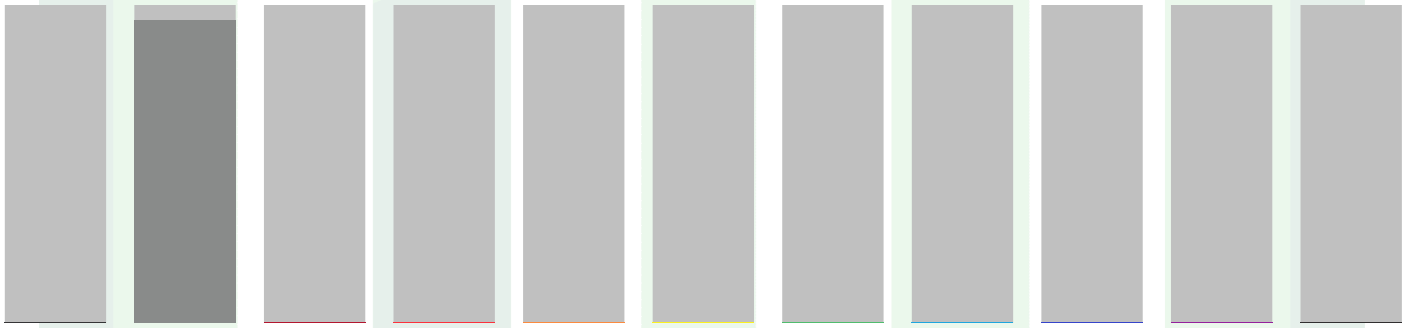
Simply Berry Caffeine
Matrix: Derivative
Accession Number: 062921UD0009
Harvest/Lot ID:
Seed to Sale: *
Batch Date: 06/29/21
Batch #:
Sample Size Received: 74 ml
Retail Product Size: 74
Ordered: 06/29/21
Completed: 07/22/21
Expires: 07/02/22
Sampling Method: SOP Client Method

Jul 22,2021 | Hectare's CBD Innovations

Louisville, KY,
(502) 548-3148

CANNABINOID RESULTS

Total THC	Total CBD	Total Cannabinoids
0.000%	**0.041%**	**0.041%**
THC/Container :0 mg	CBD/Container :30.34 mg	Cannabinoids/Container :30.34 mg



	CBC	CBD	CBDA	CBDV	CBG	CBGA	CBN	D8-THC	D9-THC	THCA	THCV
Conc.(wt%)	ND	0.041	ND	ND	ND	ND	ND	ND	ND	ND	ND
Conc.(mg/g)	ND	0.410	ND	ND	ND	ND	ND	ND	ND	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	06/30/2021	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
DB	07/02/2021	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 use for inspection. SOP.KY.02.11

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

07/22/21
Signature | Signed On

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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
ETOXAZOLE	0.01	ND	ppm	0.2	PASS	FENHEXAMID	0.005	ND	ppm	0.1	PASS
FENOXYCARB	0.01	ND	ppm	0.2	PASS	FENPYROXIMATE	0.01	ND	ppm	0.4	PASS
FIPRONIL	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
IMAZALIL	0.01	ND	ppm	0.2	PASS	IMIDACLOPRID	0.01	ND	ppm	0.4	PASS
KRESOXIM-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
THIAMETHOXAM	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	07/02/2021	Shimadzu LCMSMS 8060	

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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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
Ocratoxin A+	0.001	ND	ppm	0.2	PASS						

Analyzed by	Date	Instrument used	Analysis Method
DB	07/02/2021	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
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	120	ND	ppm	2170	PASS

Analyzed by	Date	Instrument used	Analysis Method
DB	07/01/2021	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		ND	ppm	3	PASS
Cadmium		ND	ppm	0.3	PASS
Lead		ND	ppm	10	PASS
Mercury		ND	ppm	3	PASS

Analyzed by	Date	Instrument used	Analysis Method
DB	07/01/2021	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	06/30/2021	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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