



Certificate of Analysis

Customer:
Kentucky Botanical Company
406 Fairfield Avenue
Bellevue, KY 41073

Sample ID: **200615010**
Order Number: **CB200615004**
Sample Name: **20039-1**

Collected Date:
Received Date: **6/15/2020**
COA Released: **6/22/2020**

External Sample ID:
Batch Number: **20039**
Product Type: **Concentrate**
Sample Type: **Concentrate**

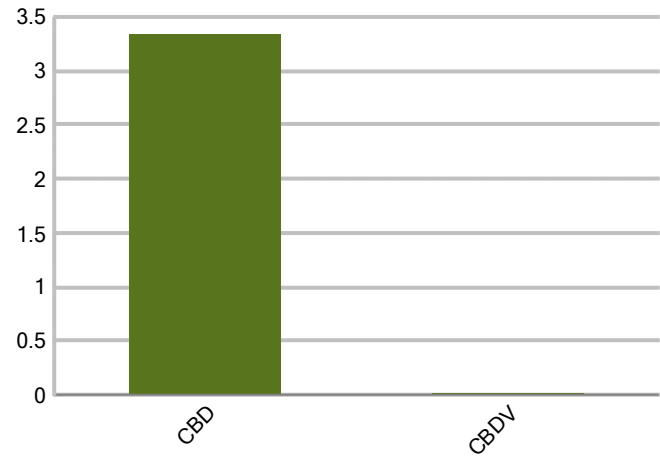
Comments:

CANNABINOID PROFILE

Analyte	LOQ (%)	% weight	mg/g
CBC	0.01	ND	ND
CBD	0.01	3.337	33.37
CBDa	0.01	ND	ND
CBDV	0.01	0.015	0.151
CBG	0.01	ND	ND
CBGa	0.01	ND	ND
CBN	0.01	ND	ND
d8-THC	0.01	ND	ND
d9-THC	0.01	ND	ND
THCa	0.01	ND	ND
Total Cannabinoids		3.352	33.52
Total Potential THC		N/A	N/A
Total Potential CBD		3.337	33.37
Total Potential CBG		N/A	N/A



Cannabinoids (% weight)



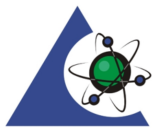
Ratio of Total Potential CBD to Total Potential THC **N/A**

Ratio of Total Potential CBG to Total Potential THC **N/A**

**Total Cannabinoids refers to the sum of all cannabinoids detected.*

**Total Potential CBD = (0.877 x CBDa) + CBD. *Total Potential THC = (0.877 x THCa) + THC. *Total Potential CBG = (0.877 x CBGa) + CBG.*

**Total Potential THC/CBD are calculated to take into account the loss of an acid group during decarboxylation.*



PJLA
Testing
Accreditation #109588

Authorized Signature

Laboratory Manager

Jamie Hobgood

06/22/2020 9:35 AM

DATE

This product has been tested by CannaBusiness Laboratories using validated testing methodologies and a quality system. Values reported relate only to the product tested. CannaBusiness Laboratories makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall be reproduced except in full, without the written permission of CannaBusiness Laboratories. Uncertainty information is available on request. Photo is of sample received by the lab and may vary from final packaging. The results apply to the sample as received. ISO/IEC 17025:2017 Accredited.



CannaBusiness Laboratories, LLC

2554 Palumbo Dr. Lexington, KY 40509



Sample ID: 200615010
Sample Name: 20039-1
Sample Type: Concentrate

Certificate of Analysis

Customer

Kentucky Botanical Co.
406 Fairfield Ave.
Bellevue, KY 40173



Overall Batch Results

PASS

Pesticide PASS	Moisture Content PASS
Potency PASS	Water Activity PASS
Mycotoxins PASS	Heavy Metals PASS
Microbial Screen PASS	Residual Solvents PASS
Terpenoids PASS	

Sample Name: 20039-1

Sample ID: 200615010

Product Type: Concentrate

Sample Type: Concentrate

Collected Date:

Received Date: 06/15/2020

Batch Number:

Batch Size:

Sample Size:

COA released:

Potency (mg/g)

Date Tested: 06/15/2020

Method:

Instrument:

0.000 % Total THC	3.337 % Total CBD	3.352 % Total Cannabinoids	33.52 mg/g Total Cannabinoids
-----------------------------	-----------------------------	--------------------------------------	---

Analyte	Result	Units	LOQ	Result	Units
CBC (Cannabichromene)	ND	%	0.010	ND	mg/g
CBD (Cannabidiol)	3.337	%	0.010	33.37	mg/g
CBDa (Cannabidiolic Acid)	ND	%	0.010	ND	mg/g
CBDV (Cannabidivarin)	0.015	%	0.010	0.151	mg/g
CBG (Cannabigerol)	ND	%	0.010	ND	mg/g
CBGa (Cannabigerolic Acid)	ND	%	0.010	ND	mg/g
CBN (Cannabinol)	ND	%	0.010	ND	mg/g
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/g
D9-THC (D9-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/g
THCa (Tetrahydrocannabinolic Acid)	ND	%	0.010	ND	mg/g

Foreign Material

Result Note

Date Tested: 06/15/2020

Absence

Water Activity

Result Units

LOQ

Result

Date Tested: 06/16/2020

0.497 Aw

0.030

Pass

Terpenoids

Date Tested: 06/17/2020

Method:

Instrument:

Analyte	Result	Unit	LOQ	Result	Unit
alpha-Bisabolol	<LOQ	mg/g	0.100	<LOQ	%
alpha-humulene	0.281	mg/g	0.100	0.0281	%
alpha-pinene	9.834	mg/g	0.100	0.9834	%
alpha-terpinene	<LOQ	mg/g	0.100	<LOQ	%
beta-caryophyllene	4.508	mg/g	0.100	0.4508	%
Beta-myrcene	<LOQ	mg/g	0.100	<LOQ	%
Beta-pinene	<LOQ	mg/g	0.100	<LOQ	%
cis-Nerolidol	<LOQ	mg/g	0.100	<LOQ	%
Camphene	0.133	mg/g	0.100	0.0133	%
d-Limonene	5.687	mg/g	0.100	0.5687	%
delta-3-Carene	<LOQ	mg/g	0.100	<LOQ	%
Eucalyptol	<LOQ	mg/g	0.100	<LOQ	%
gamma-Terpinene	<LOQ	mg/g	0.100	<LOQ	%
Geraniol	<LOQ	mg/g	0.100	<LOQ	%
Guaiol	<LOQ	mg/g	0.100	<LOQ	%
Isopulegol	<LOQ	mg/g	0.100	<LOQ	%
Linalool	<LOQ	mg/g	0.100	<LOQ	%
Ocimene (mixture of isomers)	<LOQ	mg/g	0.100	<LOQ	%
p-Isopropyltoluene (p-Cymene)	<LOQ	mg/g	0.100	<LOQ	%
trans-beta-Ocimene	<LOQ	mg/g	0.100	<LOQ	%
trans-Nerolidol	<LOQ	mg/g	0.100	<LOQ	%
Terpinolene	<LOQ	mg/g	0.100	<LOQ	%

Pesticides

Date Tested: 06/17/2020

Method:

Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Aldicarb	ND	ppm	0.050	Pass	Azoxystrobin	ND	ppm	0.050	Pass
Bifenazate	ND	ppm	0.050	Pass	Bifenthrin	ND	ppm	0.050	Pass
Boscalid	ND	ppm	0.050	Pass	Carbaryl	ND	ppm	0.050	Pass
Carbofuran	ND	ppm	0.050	Pass	Chlorantraniliprole	ND	ppm	0.050	Pass
Chlorpyrifos	ND	ppm	0.050	Pass	Clofentezine	ND	ppm	0.050	Pass
Coumaphos	ND	ppm	0.050	Pass	Daminozide	ND	ppm	0.050	Pass
Diazinon	ND	ppm	0.050	Pass	Imazalil	ND	ppm	0.050	Pass
Imidacloprid	ND	ppm	0.050	Pass	Malathion	ND	ppm	0.050	Pass
Metalaxyl	ND	ppm	0.050	Pass	Methiocarb	ND	ppm	0.050	Pass
Methomyl	ND	ppm	0.050	Pass	Myclobutanil	ND	ppm	0.050	Pass
Naled	ND	ppm	0.050	Pass	Oxamyl	ND	ppm	0.050	Pass

NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; >ULOL = Above upper limit of linearity; CFU/g = Colony forming units per 1 gram; TNTC = Too numerous to count

CannaBusiness Laboratories
License # P-0059: (859)-514- 6999 <https://www.cannabusinesslabs.us>

This product has been tested by CannaBusiness Laboratories using validated testing methodologies and a quality system. Values reported relate only to the product tested. CannaBusiness Laboratories makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written permission of CannaBusiness Laboratories. Uncertainty information is available on request. Photo is of sample received by the lab and may vary from final packaging. The results apply to the sample as received. ISO/IEC 17025:2017 Accredited.



Sample ID: 200615010
Sample Name: 20039-1
Sample Type: Concentrate

Certificate of Analysis

Pesticides							
Date Tested: 06/17/2020		Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Paclobutrazol	ND	ppm	0.050	Pass	Phosmet	ND	ppm	0.050	Pass
Prallethrin	ND	ppm	0.050	Pass	Propiconazole	ND	ppm	0.050	Pass
Dichlorvos	ND	ppm	0.050	Pass	Dimethoate	ND	ppm	0.050	Pass
Etofenprox	ND	ppm	0.050	Pass	Etozazole	ND	ppm	0.050	Pass
Fenhexamid	ND	ppm	0.050	Pass	Fenoxycarb	ND	ppm	0.050	Pass
Fenpyroximate	ND	ppm	0.050	Pass	Fipronil	ND	ppm	0.050	Pass
Flonicamid	ND	ppm	0.050	Pass	Fludioxonil	ND	ppm	0.050	Pass
Hexythiazox	ND	ppm	0.050	Pass	Acephate	ND	ppm	0.050	Pass
Acetamiprid	ND	ppm	0.050	Pass	Spinosyn D	ND	ppm	0.050	Pass
Propoxur	ND	ppm	0.050	Pass	Pyrethrin I	ND	ppm	0.050	Pass
Pyrethrin II	ND	ppm	0.050	Pass	Pyridaben	ND	ppm	0.050	Pass
Spinetoram	ND	ppm	0.050	Pass	Spiromesifen	ND	ppm	0.050	Pass
Spirotetramat	ND	ppm	0.050	Pass	Tebuconazole	ND	ppm	0.050	Pass
Thiacloprid	ND	ppm	0.050	Pass	Thiamethoxam	ND	ppm	0.050	Pass
Trifloxystrobin	ND	ppm	0.050	Pass	Ethoprophos	ND	ppm	0.050	Pass
Kresoxym-methyl	ND	ppm	0.050	Pass	Permethrins	ND	ppm	0.050	Pass
Piperonyl Butoxide	ND	ppm	0.050	Pass	Spinosyn A	ND	ppm	0.050	Pass
Spiroxamine-1	ND	ppm	0.050	Pass	AbamectinB1a	ND	ppm	0.050	Pass

Moisture Content							
Date Tested: 06/16/2020		Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Percent Moisture	10	%	0.010	Pass					

Mycotoxins							
Date Tested: 06/17/2020		Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ochratoxin A	ND	ppm	0.050	Pass	Aflatoxin B1	ND	ppm	0.050	Pass
Aflatoxin G2	ND	ppm	0.050	Pass	Aflatoxin B2	ND	ppm	0.050	Pass
Aflatoxin G1	ND	ppm	0.050	Pass					

Metals							
Date Tested: 06/18/2020		Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Arsenic	<LOQ	ppm	0.500	Pass	Cadmium	<LOQ	ppm	0.500	Pass
Lead	<LOQ	ppm	0.500	Pass	Mercury	<LOQ	ppm	3.000	Pass

Microbial							
Date Tested: 06/19/2020		Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
STEC (E. coli)	Negative			Pass	Salmonella	Negative			Pass
Listeria spp.	Negative			Pass	L. monocytogenes	Negative			Pass
Yeast/Mold	0	CFUs		Pass					

Residual Solvent							
Date Tested: 06/19/2020		Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
1-4 Dioxane	<LOQ	ppm	29	Pass	2-Butanol	<LOQ	ppm	175	Pass

NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; >ULOL = Above upper limit of linearity; CFU/g = Colony forming units per 1 gram; TNTC = Too numerous to count

CannaBusiness Laboratories
License # P-0059: (859)-514- 6999 <https://www.cannabusinesslabs.us>

This product has been tested by CannaBusiness Laboratories using validated testing methodologies and a quality system. Values reported relate only to the product tested. CannaBusiness Laboratories makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written permission of CannaBusiness Laboratories. Uncertainty information is available on request. Photo is of sample received by the lab and may vary from final packaging. The results apply to the sample as received. ISO/IEC 17025:2017 Accredited.



Sample ID: 200615010
Sample Name: 20039-1
Sample Type: Concentrate

Certificate of Analysis

Residual Solvent		
Date Tested: 06/19/2020	Method:	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
2-Ethoxyethanol	<LOQ	ppm	24	Pass	2-Methylpentane	<LOQ	ppm	87	Pass
3-Methylpentane	<LOQ	ppm	87	Pass	2-Propanol	<LOQ	ppm	350	Pass
Cyclohexane	<LOQ	ppm	146	Pass	Ether	<LOQ	ppm	350	Pass
Ethylbenzene	<LOQ	ppm	81	Pass	Acetone	<LOQ	ppm	350	Pass
Methylbutane	<LOQ	ppm	350	Pass	Isopropyl Acetate	<LOQ	ppm	175	Pass
n-Heptane	<LOQ	ppm	350	Pass	n-Hexane	<LOQ	ppm	87	Pass
n-Pentane	<LOQ	ppm	350	Pass	Tetrahydrofuran	<LOQ	ppm	54	Pass
Acetonitrile	<LOQ	ppm	123	Pass	Ethanol	<LOQ	ppm	350	Pass
Ethyl acetate	<LOQ	ppm	175	Pass	o-Xylene	<LOQ	ppm	81	Pass
m+p-Xylene	<LOQ	ppm	163	Pass	Methanol	<LOQ	ppm	250	Pass
Methylene Chloride	<LOQ	ppm	90	Pass	Toluene	<LOQ	ppm	67	Pass



Authorized Signature

Jamie Hobgood

06/22/2020 9:35 AM

Laboratory Manager

Date Time

NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; >ULOL = Above upper limit of linearity; CFU/g = Colony forming units per 1 gram; TNTC = Too numerous to count

CannaBusiness Laboratories
License # P-0059: (859)-514- 6999 <https://www.cannabusinesslabs.us>

This product has been tested by CannaBusiness Laboratories using validated testing methodologies and a quality system. Values reported relate only to the product tested. CannaBusiness Laboratories makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written permission of CannaBusiness Laboratories. Uncertainty information is available on request. Photo is of sample received by the lab and may vary from final packaging. The results apply to the sample as received. ISO/IEC 17025:2017 Accredited.