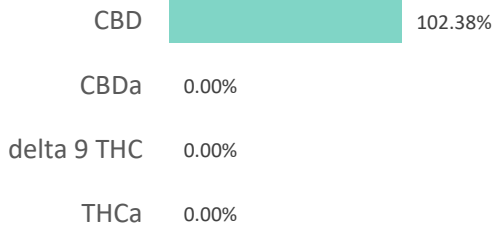
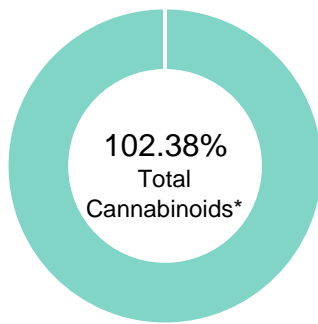


### CBD Isolate

<b>Batch ID:</b>	0038-01-004	<b>Test ID:</b>	1554090.0053
<b>Reported:</b>	14-Dec-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

### CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.19	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.09	0.00	0.0
Cannabidiolic acid (CBDA)	0.27	0.00	0.0
Cannabidiol (CBD)	0.15	102.38	1023.8
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.10	0.00	0.0
Cannabinolic Acid (CBNA)	0.25	0.00	0.0
Cannabinol (CBN)	0.11	0.00	0.0
Cannabigerolic acid (CBGA)	0.16	0.00	0.0
Cannabigerol (CBG)	0.09	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.16	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.08	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.25	0.00	0.0
Cannabidivarin (CBDV)	0.14	0.00	0.0
Cannabichromenic Acid (CBCA)	0.14	0.00	0.0
Cannabichromene (CBC)	0.17	0.00	0.0
<b>Total Cannabinoids</b>		<b>102.38</b>	<b>1023.82</b>
Total Potential THC**		0.00	0.00
Total Potential CBD**		102.38	1023.82

#### NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of 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 step.

Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

### FINAL APPROVAL



Sam Smith  
14-Dec-2019  
6:49 AM

PREPARED BY / DATE



David Green  
14-Dec-2019  
8:15 AM

APPROVED BY / DATE

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Certificate #4329.02

## CBD Isolate

<b>Batch ID:</b>	0038-01-004	<b>Test ID:</b>	T000043640
<b>Reported:</b>	30-Dec-2019	<b>Method:</b>	Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
<b>Type:</b>	Concentrate		
<b>Test:</b>	Metals		

## HEAVY METALS

Compound	Reporting Limit (ppm)	Result (ppm)
Arsenic	0.05	<0.05
Cadmium	0.05	<0.05
Lead	0.05	<0.05
Mercury	0.05	<0.05

## FINAL APPROVAL

Sam Smith  
30-Dec-2019  
3:09 PM

PREPARED BY / DATE

Greg Zimpfer  
30-Dec-2019  
3:17 PM

APPROVED BY / DATE

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**CBD Isolate**

<b>Batch ID:</b>	0038-01-004	<b>Test ID:</b>	3006208.008
<b>Reported:</b>	17-Dec-2019	<b>Method:</b>	TM17
<b>Type:</b>	Concentrate		
<b>Test:</b>	Pesticides		


**PESTICIDE RESIDUE**


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	57 - 2648	ND*	Malathion	57 - 2648	ND*
Acetamiprid	57 - 2648	ND*	Metalaxyl	343 - 2648	ND*
Avermectin	343 - 2648	ND*	Methiocarb	57 - 2648	ND*
Azoxystrobin	57 - 2648	ND*	Methomyl	57 - 2648	ND*
Bifenazate	57 - 2648	ND*	MGK 264 1	57 - 2648	ND*
Boscalid	343 - 2648	ND*	MGK 264 2	343 - 2648	ND*
Carbaryl	57 - 2648	ND*	Myclobutanil	343 - 2648	ND*
Carbofuran	57 - 2648	ND*	Naled	343 - 2648	ND*
Chlorantraniliprole	57 - 2648	ND*	Oxamyl	57 - 2648	ND*
Chlorpyrifos	343 - 2648	ND*	Paclobutrazol	57 - 2648	ND*
Clofentezine	57 - 2648	ND*	Permethrin	343 - 2648	ND*
Diazinon	57 - 2648	ND*	Phosmet	57 - 2648	ND*
Dichlorvos	343 - 2648	ND*	Prophos	343 - 2648	ND*
Dimethoate	57 - 2648	ND*	Propoxur	343 - 2648	ND*
E-Fenproximate	343 - 2648	ND*	Pyridaben	343 - 2648	ND*
Etofenprox	343 - 2648	ND*	Spinosad A	57 - 2648	ND*
Etoxazole	343 - 2648	ND*	Spinosad D	343 - 2648	ND*
Fenoxycarb	57 - 2648	ND*	Spiromesifen	57 - 2648	ND*
Fipronil	343 - 2648	ND*	Spirotetramat	343 - 2648	ND*
Flonicamid	57 - 2648	ND*	Spiroxamine 1	57 - 2648	ND*
Fludioxonil	343 - 2648	ND*	Spiroxamine 2	57 - 2648	ND*
Hexythiazox	343 - 2648	ND*	Tebuconazole	57 - 2648	ND*
Imazalil	343 - 2648	ND*	Thiacloprid	57 - 2648	ND*
Imidacloprid	57 - 2648	ND*	Thiamethoxam	57 - 2648	ND*
Kresoxim-methyl	57 - 2648	ND*	Trifloxystrobin	343 - 2648	ND*

\* ND = None Detected (Defined by Dynamic Range of the method)

N/A

**FINAL APPROVAL**

  
**Sam Smith**  
 17-Dec-2019  
 2:34 PM  
 PREPARED BY / DATE

  
**Greg Zimpfer**  
 17-Dec-2019  
 3:00 PM  
 APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



### CBD Isolate

<b>Batch ID:</b>	0038-01-004	<b>Test ID:</b>	2054655.037
<b>Reported:</b>	16-Dec-2019	<b>Method:</b>	TM04
<b>Type:</b>	Concentrate		
<b>Test:</b>	Residual Solvents		

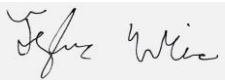
### RESIDUAL SOLVENTS


Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	246
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

#### NOTES:

Free from visual mold, mildew, and foreign matter.

### FINAL APPROVAL

  
 Tyler Wiese  
 16-Dec-2019  
 7:11 PM

  
 Greg Zimpfer  
 16-Dec-2019  
 8:03 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

## CBD Isolate

<b>Batch ID:</b>	0038-01-004	<b>Test ID:</b>	5577146.022
<b>Reported:</b>	16-Dec-2019	<b>Method:</b>	Concentrate - Test Methods: TM05, TM06
<b>Type:</b>	Concentrate		
<b>Test:</b>	Microbial Contaminants		

## MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b><i>E. coli</i></b>	None Detected
<b><i>Salmonella</i></b>	None Detected

\* CFU/g = Colony Forming Unit per Gram

\*\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

## NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected


Total Aerobic: None Detected

Coliforms: None Detected

## FINAL APPROVAL



Mara Miller  
16-Dec-2019  
5:32 PM



David Green  
16-Dec-2019  
6:23 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Services, LLC.