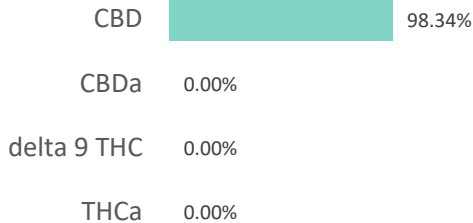
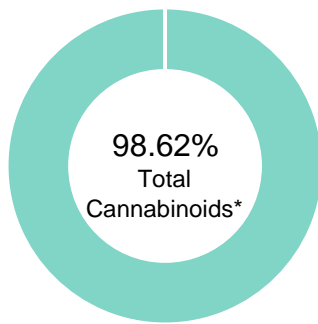


CBD ISOLATE

Batch ID:	0038-01-007	Test ID:	2032133.0056
Reported:	21-Jan-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.23	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.12	0.00	0.0
Cannabidiolic acid (CBDA)	0.29	0.00	0.0
Cannabidiol (CBD)	0.16	98.34	983.4
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.13	0.00	0.0
Cannabinolic Acid (CBNA)	0.32	0.00	0.0
Cannabinol (CBN)	0.14	0.00	0.0
Cannabigerolic acid (CBGA)	0.20	0.00	0.0
Cannabigerol (CBG)	0.11	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.20	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.10	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.27	0.00	0.0
Cannabidivarin (CBDV)	0.15	0.28	2.8
Cannabichromenic Acid (CBCA)	0.17	0.00	0.0
Cannabichromene (CBC)	0.21	0.00	0.0
Total Cannabinoids		98.62	986.20
Total Potential THC**		0.00	0.00
Total Potential CBD**		98.34	983.40


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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
FINAL APPROVAL


Michelle Gagnon
21-Jan-2020
11:42 AM

PREPARED BY / DATE



Greg Zimpfer
21-Jan-2020
12:20 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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02




CBD ISOLATE

Batch ID:	0038-01-007	Test ID:	T000052954
Reported:	30-Jan-2020	Method:	Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
Type:	Other		
Test:	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-Jan-2020
5:32 AM

PREPARED BY / DATE

 Greg Zimpfer
30-Jan-2020
3:26 PM

APPROVED BY / DATE

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CBD ISOLATE

Batch ID:	0038-01-007	Test ID:	6403043.011
Reported:	21-Jan-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	318
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

Alex Smith
21-Jan-2020
2:23 PMGreg Zimpfer
21-Jan-2020
4:39 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

CBD ISOLATE

Batch ID:	0038-01-007	Test ID:	5167494.0015
Reported:	21-Jan-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	55 - 2528	ND*	Malathion	55 - 2528	ND*
Acetamiprid	55 - 2528	ND*	Metalaxyl	328 - 2528	ND*
Avermectin	328 - 2528	ND*	Methiocarb	55 - 2528	ND*
Azoxystrobin	55 - 2528	ND*	Methomyl	55 - 2528	ND*
Bifenazate	55 - 2528	N/A	MGK 264 1	55 - 2528	ND*
Boscalid	328 - 2528	ND*	MGK 264 2	328 - 2528	ND*
Carbaryl	55 - 2528	ND*	Myclobutanil	328 - 2528	ND*
Carbofuran	55 - 2528	ND*	Naled	328 - 2528	ND*
Chlorantraniliprole	55 - 2528	ND*	Oxamyl	55 - 2528	ND*
Chlorpyrifos	328 - 2528	ND*	Paclobutrazol	55 - 2528	ND*
Clofentezine	55 - 2528	ND*	Permethrin	328 - 2528	ND*
Diazinon	55 - 2528	ND*	Phosmet	55 - 2528	ND*
Dichlorvos	328 - 2528	ND*	Prophos	328 - 2528	ND*
Dimethoate	55 - 2528	ND*	Propoxur	328 - 2528	ND*
E-Fenpyroximate	328 - 2528	ND*	Pyridaben	328 - 2528	ND*
Etofenprox	328 - 2528	ND*	Spinosad A	55 - 2528	ND*
Etoxazole	328 - 2528	ND*	Spinosad D	328 - 2528	ND*
Fenoxycarb	55 - 2528	ND*	Spiromesifen	55 - 2528	ND*
Fipronil	328 - 2528	ND*	Spirotetramat	328 - 2528	ND*
Flonicamid	55 - 2528	ND*	Spiroxamine 1	55 - 2528	ND*
Fludioxonil	328 - 2528	ND*	Spiroxamine 2	55 - 2528	ND*
Hexythiazox	328 - 2528	ND*	Tebuconazole	55 - 2528	ND*
Imazalil	328 - 2528	ND*	Thiacloprid	55 - 2528	ND*
Imidacloprid	55 - 2528	ND*	Thiamethoxam	55 - 2528	ND*
Kresoxim-methyl	55 - 2528	ND*	Trifloxystrobin	328 - 2528	ND*


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

N/A

FINAL APPROVAL


 Sam Smith
 21-Jan-2020
 12:31 PM

PREPARED BY / DATE


 Greg Zimpfer
 21-Jan-2020
 12:58 PM

APPROVED BY / DATE

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CBD ISOLATE

Batch ID:	0038-01-007	Test ID:	T000052952
Reported:	19-Jan-2020	Method:	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

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

Samantha N. Pauly
Samantha Pauly
19-Jan-2020
3:44 PM

Mike Branvold
Mike Branvold
19-Jan-2020
5:05 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03