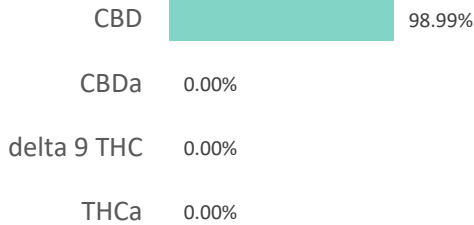
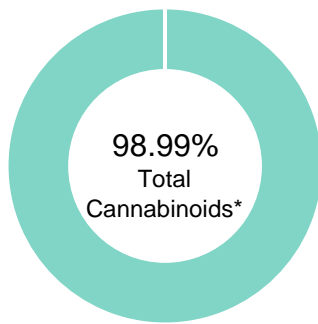


CBD ISOLATE

Batch ID:	0038-01-006	Test ID:	4623945.0021
Reported:	13-Jan-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.24	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.12	0.00	0.0
Cannabidiolic acid (CBDA)	0.30	0.00	0.0
Cannabidiol (CBD)	0.17	98.99	989.9
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.13	0.00	0.0
Cannabinolic Acid (CBNA)	0.33	0.00	0.0
Cannabinol (CBN)	0.15	0.00	0.0
Cannabigerolic acid (CBGA)	0.21	0.00	0.0
Cannabigerol (CBG)	0.12	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.21	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.11	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.27	0.00	0.0
Cannabidivarin (CBDV)	0.15	0.00	0.0
Cannabichromenic Acid (CBCA)	0.18	0.00	0.0
Cannabichromene (CBC)	0.22	0.00	0.0
Total Cannabinoids		98.99	989.90
Total Potential THC**		0.00	0.00
Total Potential CBD**		98.99	989.90


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


Taylor Brevik
13-Jan-2020
11:40 AM

PREPARED BY / DATE



David Green
13-Jan-2020
12:17 PM

APPROVED BY / DATE

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CBD ISOLATE

Batch ID:	0038-01-006	Test ID:	T000050461
Reported:	21-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
21-Jan-2020
4:50 AM

PREPARED BY / DATE

 Greg Zimpfer
21-Jan-2020
10:48 AM

APPROVED BY / DATE

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CBD ISOLATE

Batch ID:	0038-01-006	Test ID:	6387113.001
Reported:	13-Jan-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

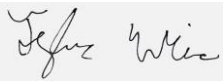
RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	297
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
13-Jan-2020
3:53 PMGreg Zimpfer
13-Jan-2020
4:09 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

CBD ISOLATE

Batch ID:	0038-01-006	Test ID:	3067457.009
Reported:	14-Jan-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	50 - 2297	ND*	Malathion	50 - 2297	ND*
Acetamiprid	50 - 2297	ND*	Metalaxyl	298 - 2297	ND*
Avermectin	298 - 2297	ND*	Methiocarb	50 - 2297	ND*
Azoxystrobin	50 - 2297	ND*	Methomyl	50 - 2297	ND*
Bifenazate	50 - 2297	N/A	MGK 264 1	50 - 2297	ND*
Boscalid	298 - 2297	ND*	MGK 264 2	298 - 2297	ND*
Carbaryl	50 - 2297	ND*	Myclobutanil	298 - 2297	ND*
Carbofuran	50 - 2297	ND*	Naled	298 - 2297	ND*
Chlorantraniliprole	50 - 2297	ND*	Oxamyl	50 - 2297	ND*
Chlorpyrifos	298 - 2297	ND*	Paclobutrazol	50 - 2297	ND*
Clofentezine	50 - 2297	ND*	Permethrin	298 - 2297	ND*
Diazinon	50 - 2297	ND*	Phosmet	50 - 2297	ND*
Dichlorvos	298 - 2297	ND*	Prophos	298 - 2297	ND*
Dimethoate	50 - 2297	ND*	Propoxur	298 - 2297	ND*
E-Fenpyroximate	298 - 2297	ND*	Pyridaben	298 - 2297	ND*
Etofenprox	298 - 2297	ND*	Spinosad A	50 - 2297	ND*
Etoxazole	298 - 2297	ND*	Spinosad D	298 - 2297	ND*
Fenoxycarb	50 - 2297	ND*	Spiromesifen	50 - 2297	ND*
Fipronil	298 - 2297	ND*	Spirotetramat	298 - 2297	ND*
Flonicamid	50 - 2297	ND*	Spiroxamine 1	50 - 2297	ND*
Fludioxonil	298 - 2297	ND*	Spiroxamine 2	50 - 2297	ND*
Hexythiazox	298 - 2297	ND*	Tebuconazole	50 - 2297	ND*
Imazalil	298 - 2297	ND*	Thiacloprid	50 - 2297	ND*
Imidacloprid	50 - 2297	ND*	Thiamethoxam	50 - 2297	ND*
Kresoxim-methyl	50 - 2297	ND*	Trifloxystrobin	298 - 2297	ND*

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

N/A

FINAL APPROVAL


 Sam Smith
 14-Jan-2020
 8:02 AM
 PREPARED BY / DATE


 Greg Zimpfer
 14-Jan-2020
 3:12 PM
 APPROVED BY / DATE

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CBD ISOLATE

Batch ID:	0038-01-006	Test ID:	T000050459
Reported:	12-Jan-2020	Method:	MIP - Test Methods: TM05, TM06
Type:	MIP		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

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


Robert Belfon
12-Jan-2020
1:17 PM


Mike Branvold
12-Jan-2020
6:13 PM

PREPARED BY / DATE

APPROVED BY / DATE

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