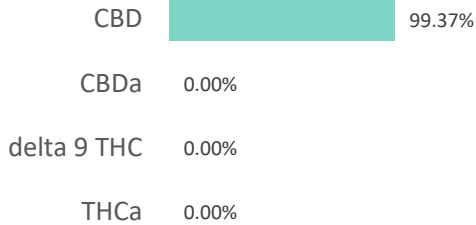
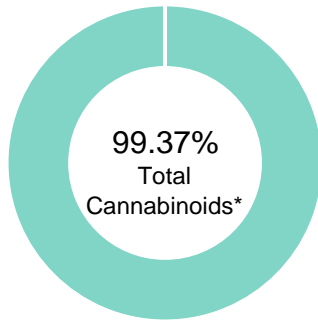


Crystalline CBD Isolate

Batch ID:	AS 10.8	Test ID:	8980573.0033
Reported:	16-Oct-2019	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)	0.11	0.00	0.0
Cannabidiolic acid (CBDA)	0.30	0.00	0.0
Cannabidiol (CBD)	0.17	99.37	993.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.12	0.00	0.0
Cannabinolic Acid (CBNA)	0.31	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)	0.19	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.10	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.28	0.00	0.0
Cannabidivarin (CBDV)	0.15	0.00	0.0
Cannabichromenic Acid (CBCA)	0.17	0.00	0.0
Cannabichromene (CBC)	0.20	0.00	0.0
Total Cannabinoids		99.37	993.70
Total Potential THC**		0.00	0.00
Total Potential CBD**		99.37	993.70

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.

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


 Alex Smith
 16-Oct-2019
 4:57 PM
 PREPARED BY / DATE


 David Green
 16-Oct-2019
 7:16 PM
 APPROVED BY / DATE

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Crystalline CBD Isolate

Batch ID:	AS 10.8	Test ID:	3161802.011
Reported:	16-Oct-2019	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	448
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
 16-Oct-2019
 3:16 PM



 David Green
 16-Oct-2019
 3:28 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

Crystalline CBD Isolate


Batch ID:	AS 10.8	Test ID:	5814726.0026
Reported:	21-Oct-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	43 - 1968	ND*	Malathion	43 - 1968	ND*
Acetamiprid	43 - 1968	ND*	Metalaxyl	255 - 1968	ND*
Avermectin	255 - 1968	ND*	Methiocarb	43 - 1968	ND*
Azoxystrobin	43 - 1968	ND*	Methomyl	43 - 1968	ND*
Bifenazate	43 - 1968	ND*	MGK 264 1	43 - 1968	ND*
Boscalid	255 - 1968	ND*	MGK 264 2	255 - 1968	ND*
Carbaryl	43 - 1968	ND*	Myclobutanil	255 - 1968	ND*
Carbofuran	43 - 1968	ND*	Naled	255 - 1968	ND*
Chlorantraniliprole	43 - 1968	ND*	Oxamyl	43 - 1968	ND*
Chlorpyrifos	255 - 1968	ND*	Paclobutrazol	43 - 1968	ND*
Clofentezine	43 - 1968	ND*	Permethrin	255 - 1968	ND*
Diazinon	43 - 1968	ND*	Phosmet	43 - 1968	ND*
Dichlorvos	255 - 1968	ND*	Prophos	255 - 1968	ND*
Dimethoate	43 - 1968	ND*	Propoxur	255 - 1968	ND*
E-Fenpyroximate	255 - 1968	ND*	Pyridaben	255 - 1968	ND*
Etofenprox	255 - 1968	ND*	Spinosad A	43 - 1968	ND*
Etoxazole	255 - 1968	ND*	Spinosad D	255 - 1968	ND*
Fenoxycarb	43 - 1968	ND*	Spiromesifen	43 - 1968	ND*
Fipronil	255 - 1968	ND*	Spirotetramat	255 - 1968	ND*
Flonicamid	43 - 1968	ND*	Spiroxamine 1	43 - 1968	ND*
Fludioxonil	255 - 1968	ND*	Spiroxamine 2	43 - 1968	ND*
Hexythiazox	255 - 1968	ND*	Tebuconazole	43 - 1968	ND*
Imazalil	255 - 1968	ND*	Thiacloprid	43 - 1968	ND*
Imidacloprid	43 - 1968	ND*	Thiamethoxam	43 - 1968	ND*
Kresoxim-methyl	43 - 1968	ND*	Trifloxystrobin	255 - 1968	ND*

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

N/A

FINAL APPROVAL


Chris Jungling
21-Oct-2019
12:44 PM

PREPARED BY / DATE



David Green
21-Oct-2019
1:42 PM

APPROVED BY / DATE

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Crystalline CBD Isolate

Batch ID:	AS 10.8	Test ID:	8901884.011
Reported:	14-Oct-2019	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
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

Sarah Henning
14-Oct-2019
3:15 PM



David Green
14-Oct-2019
4:16 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Crystalline CBD Isolate

Batch ID:	AS 10.8	Test ID:	T000020574
Reported:	22-Oct-2019	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

 Alex Smith
22-Oct-2019
10:18 AM

PREPARED BY / DATE

 David Green
22-Oct-2019
12:15 PM

APPROVED BY / DATE

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