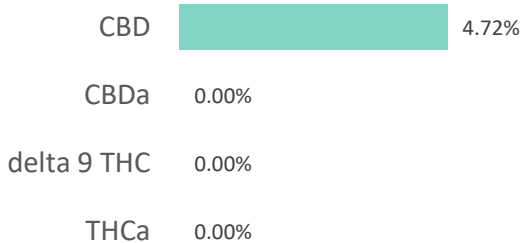
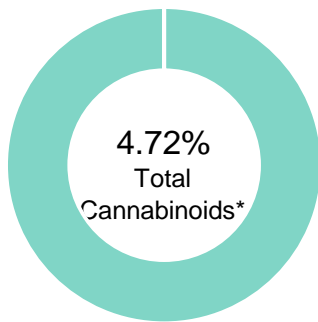


DS Advanced Cream

Batch ID:	1139	Test ID:	2096677.004
Reported:	7-Apr-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		


CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.03	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	ND	ND
Cannabidiolic acid (CBDA)	0.03	ND	ND
Cannabidiol (CBD)	0.01	4.72	47.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.04	ND	ND
Cannabinol (CBN)	0.02	ND	ND
Cannabigerolic acid (CBGA)	0.03	ND	ND
Cannabigerol (CBG)	0.02	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.03	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.02	ND	ND
Cannabidivarin (CBDV)	0.01	ND	ND
Cannabichromenic Acid (CBCA)	0.02	ND	ND
Cannabichromene (CBC)	0.03	ND	ND
Total Cannabinoids		4.72	47.20
Total Potential THC**		ND	ND
Total Potential CBD**		4.72	47.20

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

NOTES:
N/A

FINAL APPROVAL


 Mara Miller
 7-Apr-2020
 1:34 PM


 Ben Minton
 7-Apr-2020
 5:21 PM

PREPARED BY / DATE

APPROVED BY / DATE

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DS Advanced Cream

Batch ID:	1139	Test ID:	T000070327
Reported:	9-Apr-2020	Method:	Topical - Test Methods: TM05, TM06
Type:	Topical		
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
9-Apr-2020
10:42 AM
Greg Zimpfer
9-Apr-2020
11:01 AM

PREPARED BY / DATE

APPROVED BY / DATE

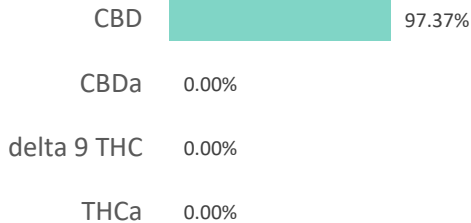
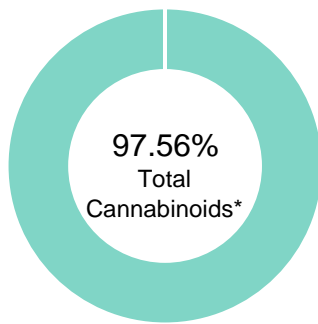
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Certificate #4329.03

CBD Powder

Batch ID:	101619	Test ID:	9040312.005
Reported:	7-Nov-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.20	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.10	0.00	0.0
Cannabidiolic acid (CBDA)	0.33	0.00	0.0
Cannabidiol (CBD)	0.18	97.37	973.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.11	0.00	0.0
Cannabinolic Acid (CBNA)	0.27	0.00	0.0
Cannabinol (CBN)	0.12	0.00	0.0
Cannabigerolic acid (CBGA)	0.17	0.00	0.0
Cannabigerol (CBG)	0.10	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.17	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.09	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.31	0.00	0.0
Cannabidivarin (CBDV)	0.17	0.19	1.9
Cannabichromenic Acid (CBCA)	0.15	0.00	0.0
Cannabichromene (CBC)	0.18	0.00	0.0
Total Cannabinoids		97.56	975.60
Total Potential THC**		0.00	0.00
Total Potential CBD**		97.37	973.70


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.

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


Tyler Wiese
6-Nov-2019
7:57 PM

PREPARED BY / DATE



David Green
7-Nov-2019
8:03 AM

APPROVED BY / DATE

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CBD Powder

Batch ID:	101619	Test ID:	6798002.046
Reported:	4-Nov-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

Samantha N. Pauly

Samantha Pauly
4-Nov-2019
11:19 AMDavid Green
4-Nov-2019
11:37 AM

PREPARED BY / DATE

APPROVED BY / DATE

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CBD Powder

Batch ID:	101619	Test ID:	6804731.005
Reported:	6-Nov-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	0
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


 Karen Winternheimer
 6-Nov-2019
 1:44 PM



 David Green
 6-Nov-2019
 1:47 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

CBD Powder

Batch ID:	101619	Test ID:	1108045.0054
Reported:	4-Nov-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	68 - 3161	ND*	Malathion	68 - 3161	ND*
Acetamiprid	68 - 3161	ND*	Metalaxyl	410 - 3161	ND*
Avermectin	410 - 3161	ND*	Methiocarb	68 - 3161	ND*
Azoxystrobin	68 - 3161	ND*	Methomyl	68 - 3161	ND*
Bifenazate	68 - 3161	ND*	MGK 264 1	68 - 3161	ND*
Boscalid	410 - 3161	ND*	MGK 264 2	410 - 3161	ND*
Carbaryl	68 - 3161	ND*	Myclobutanil	410 - 3161	ND*
Carbofuran	68 - 3161	ND*	Naled	410 - 3161	ND*
Chlorantraniliprole	68 - 3161	ND*	Oxamyl	68 - 3161	ND*
Chlorpyrifos	410 - 3161	ND*	Paclobutrazol	68 - 3161	ND*
Clofentezine	68 - 3161	ND*	Permethrin	410 - 3161	ND*
Diazinon	68 - 3161	ND*	Phosmet	68 - 3161	ND*
Dichlorvos	410 - 3161	ND*	Prophos	410 - 3161	ND*
Dimethoate	68 - 3161	ND*	Propoxur	410 - 3161	ND*
E-Fenproximate	410 - 3161	ND*	Pyridaben	410 - 3161	ND*
Etofenprox	410 - 3161	ND*	Spinosad A	68 - 3161	ND*
Etoxazole	410 - 3161	ND*	Spinosad D	410 - 3161	ND*
Fenoxycarb	68 - 3161	ND*	Spiromesifen	68 - 3161	ND*
Fipronil	410 - 3161	ND*	Spirotetramat	410 - 3161	ND*
Flonicamid	68 - 3161	ND*	Spiroxamine 1	68 - 3161	ND*
Fludioxonil	410 - 3161	ND*	Spiroxamine 2	68 - 3161	ND*
Hexythiazox	410 - 3161	ND*	Tebuconazole	68 - 3161	ND*
Imazalil	410 - 3161	ND*	Thiacloprid	68 - 3161	ND*
Imidacloprid	68 - 3161	ND*	Thiamethoxam	68 - 3161	ND*
Kresoxim-methyl	68 - 3161	ND*	Trifloxystrobin	410 - 3161	ND*

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

N/A

FINAL APPROVAL


Sam Smith
 4-Nov-2019
 7:20 AM
 PREPARED BY / DATE


David Green
 4-Nov-2019
 8:14 AM
 APPROVED BY / DATE

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CBD Powder

Batch ID:	101619	Test ID:	T000029332
Reported:	15-Nov-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
15-Nov-2019
6:47 AM

PREPARED BY / DATE

 David Green
15-Nov-2019
8:09 AM

APPROVED BY / DATE

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