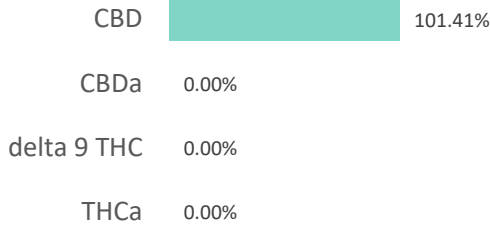
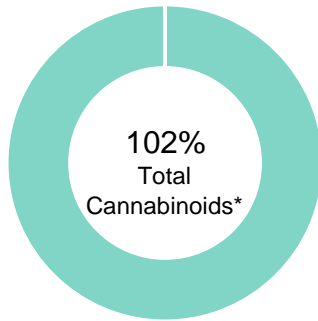


0038-01-003

Batch ID:	0038-01-003	Test ID:	6385191.0057
Reported:	6-Dec-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.26	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.13	0.00	0.0
Cannabidiolic acid (CBDA)	0.28	0.00	0.0
Cannabidiol (CBD)	0.16	101.41	1014.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.14	0.00	0.0
Cannabinolic Acid (CBNA)	0.36	0.00	0.0
Cannabinol (CBN)	0.16	0.00	0.0
Cannabigerolic acid (CBGA)	0.23	0.00	0.0
Cannabigerol (CBG)	0.13	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.22	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.12	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.26	0.00	0.0
Cannabidivarin (CBDV)	0.14	0.59	5.9
Cannabichromenic Acid (CBCA)	0.19	0.00	0.0
Cannabichromene (CBC)	0.23	0.00	0.0
Total Cannabinoids		102.00	1020.00
Total Potential THC**		0.00	0.00
Total Potential CBD**		101.41	1014.10


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-Dec-2019
1:59 PM

PREPARED BY / DATE



Greg Zimpfer
6-Dec-2019
2:29 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



Certificate #4329.02

0038-01-003

Batch ID:	0038-01-003	Test ID:	T000041075
Reported:	18-Dec-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

Sam Smith
18-Dec-2019
2:38 PM

PREPARED BY / DATE

Greg Zimpfer
18-Dec-2019
2:50 PM

APPROVED BY / DATE

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0038-01-003

Batch ID:	0038-01-003	Test ID:	4900800.001
Reported:	6-Dec-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	321
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-Dec-2019 2:34 PM		Greg Zimpfer 6-Dec-2019 2:48 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

0038-01-003

Batch ID:	0038-01-003	Test ID:	6724119.003
Reported:	9-Dec-2019	Method:	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	BLOQ
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: BLOQ | Below limit of quantitation

Coliforms: None Detected

FINAL APPROVAL



Sarah Henning
9-Dec-2019
1:26 PM



David Green
9-Dec-2019
2:26 PM

PREPARED BY / DATE

APPROVED BY / DATE

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0038-01-003


Batch ID:	0038-01-003	Test ID:	7212324.0022
Reported:	11-Dec-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	53 - 2445	ND*	Malathion	53 - 2445	ND*
Acetamiprid	53 - 2445	ND*	Metalaxyl	317 - 2445	ND*
Avermectin	317 - 2445	ND*	Methiocarb	53 - 2445	ND*
Azoxystrobin	53 - 2445	ND*	Methomyl	53 - 2445	ND*
Bifenazate	53 - 2445	ND*	MGK 264 1	53 - 2445	ND*
Boscalid	317 - 2445	ND*	MGK 264 2	317 - 2445	ND*
Carbaryl	53 - 2445	ND*	Myclobutanil	317 - 2445	ND*
Carbofuran	53 - 2445	ND*	Naled	317 - 2445	ND*
Chlorantraniliprole	53 - 2445	ND*	Oxamyl	53 - 2445	ND*
Chlorpyrifos	317 - 2445	ND*	Paclobutrazol	53 - 2445	ND*
Clofentezine	53 - 2445	ND*	Permethrin	317 - 2445	ND*
Diazinon	53 - 2445	ND*	Phosmet	53 - 2445	ND*
Dichlorvos	317 - 2445	ND*	Prophos	317 - 2445	ND*
Dimethoate	53 - 2445	ND*	Propoxur	317 - 2445	ND*
E-Fenpyroximate	317 - 2445	ND*	Pyridaben	317 - 2445	ND*
Etofenprox	317 - 2445	ND*	Spinosad A	53 - 2445	ND*
Etoxazole	317 - 2445	ND*	Spinosad D	317 - 2445	ND*
Fenoxycarb	53 - 2445	ND*	Spiromesifen	53 - 2445	ND*
Fipronil	317 - 2445	ND*	Spirotetramat	317 - 2445	ND*
Flonicamid	53 - 2445	ND*	Spiroxamine 1	53 - 2445	ND*
Fludioxonil	317 - 2445	ND*	Spiroxamine 2	53 - 2445	ND*
Hexythiazox	317 - 2445	ND*	Tebuconazole	53 - 2445	ND*
Imazalil	317 - 2445	ND*	Thiacloprid	53 - 2445	ND*
Imidacloprid	53 - 2445	ND*	Thiamethoxam	53 - 2445	ND*
Kresoxim-methyl	53 - 2445	ND*	Trifloxystrobin	317 - 2445	ND*


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

N/A

FINAL APPROVAL


Sam Smith
 11-Dec-2019
 6:43 AM

PREPARED BY / DATE



David Green
 11-Dec-2019
 9:50 AM

APPROVED BY / DATE

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