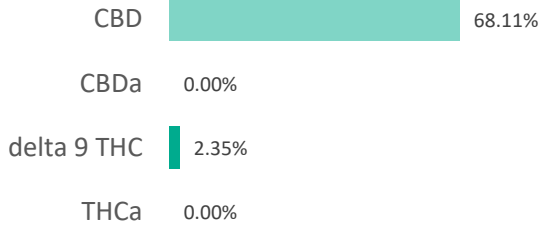
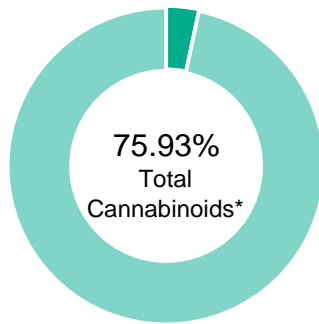


Full Spectrum Hemp Extract

Batch ID:	CAA203G	Test ID:	4478239.0023
Reported:	12-Nov-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.29	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.14	2.35	23.5
Cannabidiolic acid (CBDA)	0.30	0.00	0.0
Cannabidiol (CBD)	0.17	68.11	681.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.16	0.00	0.0
Cannabinolic Acid (CBNA)	0.39	0.00	0.0
Cannabinol (CBN)	0.17	0.20	2.0
Cannabigerolic acid (CBGA)	0.25	0.00	0.0
Cannabigerol (CBG)	0.14	1.67	16.7
Tetrahydrocannabivarinic Acid (THCVA)	0.25	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.13	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.28	0.00	0.0
Cannabidivarin (CBDV)	0.15	0.00	0.0
Cannabichromenic Acid (CBCA)	0.22	0.00	0.0
Cannabichromene (CBC)	0.26	3.60	36.0
Total Cannabinoids		75.93	759.30
Total Potential THC**		2.35	23.50
Total Potential CBD**		68.11	681.10

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


Taylor Brevik
 11-Nov-2019
 7:59 PM

PREPARED BY / DATE



David Green
 12-Nov-2019
 8:16 AM

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



Full Spectrum Hemp Extract

Batch ID:	CAA203G	Test ID:	T000056515
Reported:	15-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**
Nick Tumminaro
31-Jan-2020
2:31 PM
Greg Zimpfer
31-Jan-2020
3:37 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03

Full Spectrum Hemp Extract

Batch ID:	CAA203G	Test ID:	1802793.002
Reported:	15-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

Alex Smith
31-Jan-2020
2:02 PMGreg Zimpfer
31-Jan-2020
2:59 PM

PREPARED BY / DATE

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

Full Spectrum Hemp Extract

Batch ID:	CAA203G	Test ID:	6291395.002
Reported:	18-Nov-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	55 - 2565	ND*	Malathion	55 - 2565	ND*
Acetamiprid	55 - 2565	ND*	Metalaxyl	332 - 2565	ND*
Avermectin	332 - 2565	ND*	Methiocarb	55 - 2565	ND*
Azoxystrobin	55 - 2565	ND*	Methomyl	55 - 2565	ND*
Bifenazate	55 - 2565	N/A	MGK 264 1	55 - 2565	ND*
Boscalid	332 - 2565	ND*	MGK 264 2	332 - 2565	ND*
Carbaryl	55 - 2565	ND*	Myclobutanil	332 - 2565	ND*
Carbofuran	55 - 2565	ND*	Naled	332 - 2565	ND*
Chlorantraniliprole	55 - 2565	ND*	Oxamyl	55 - 2565	ND*
Chlorpyrifos	332 - 2565	ND*	Paclobutrazol	55 - 2565	ND*
Clofentezine	55 - 2565	ND*	Permethrin	332 - 2565	ND*
Diazinon	55 - 2565	ND*	Phosmet	55 - 2565	ND*
Dichlorvos	332 - 2565	ND*	Prophos	332 - 2565	ND*
Dimethoate	55 - 2565	ND*	Propoxur	332 - 2565	ND*
E-Fenpyroximate	332 - 2565	ND*	Pyridaben	332 - 2565	ND*
Etofenprox	332 - 2565	ND*	Spinosad A	55 - 2565	ND*
Etoxazole	332 - 2565	ND*	Spinosad D	332 - 2565	ND*
Fenoxycarb	55 - 2565	ND*	Spiromesifen	55 - 2565	ND*
Fipronil	332 - 2565	ND*	Spirotetramat	332 - 2565	ND*
Flonicamid	55 - 2565	ND*	Spiroxamine 1	55 - 2565	ND*
Fludioxonil	332 - 2565	ND*	Spiroxamine 2	55 - 2565	ND*
Hexythiazox	332 - 2565	ND*	Tebuconazole	55 - 2565	ND*
Imazalil	332 - 2565	ND*	Thiacloprid	55 - 2565	ND*
Imidacloprid	55 - 2565	ND*	Thiamethoxam	55 - 2565	ND*
Kresoxim-methyl	55 - 2565	ND*	Trifloxystrobin	332 - 2565	ND*

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

N/A

FINAL APPROVAL


 Sam Smith
 3-Feb-2020
 8:22 AM
 PREPARED BY / DATE


 Greg Zimpfer
 3-Feb-2020
 8:51 AM
 APPROVED BY / DATE

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Full Spectrum Hemp Extract

Batch ID:	CAA203G	Test ID:	T000056518
Reported:	25-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


Sam Smith
10-Feb-2020
1:46 PM
PREPARED BY / DATE


Greg Zimpfer
10-Feb-2020
2:38 PM
APPROVED BY / DATE

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