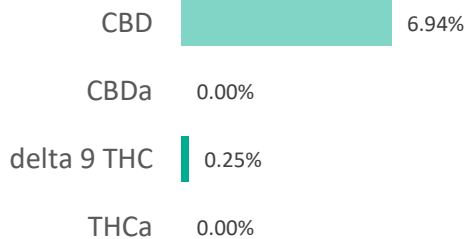
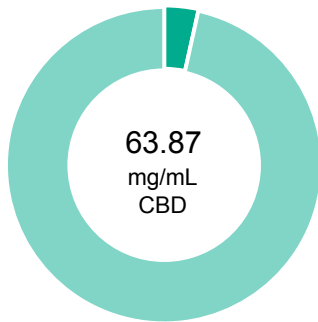


A049

Batch ID:		Test ID:	T000113728
Type:	Solution	Submitted:	12/04/2020 @ 10:39 AM
Test:	Potency	Started:	12/4/2020
Method:	TM14	Reported:	12/4/2020

CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.53	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.26	2.30	2.5
Cannabidiolic acid (CBDA)	0.21	ND	ND
Cannabidiol (CBD)	0.45	63.87	69.4
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.28	ND	ND
Cannabinolic Acid (CBNA)	0.74	ND	ND
Cannabinol (CBN)	0.32	ND	ND
Cannabigerolic acid (CBGA)	0.46	ND	ND
Cannabigerol (CBG)	0.26	1.52	1.7
Tetrahydrocannabivarinic Acid (THCVA)	0.45	ND	ND
Tetrahydrocannabivarin (THCV)	0.23	ND	ND
Cannabidivarinic Acid (CBDVA)	0.20	ND	ND
Cannabidivarin (CBDV)	0.11	0.75	0.8
Cannabichromenic Acid (CBCA)	0.41	ND	ND
Cannabichromene (CBC)	0.47	1.99	2.2
Total Cannabinoids		70.43	76.6
Total Potential THC**		2.30	2.5
Total Potential CBD**		63.87	69.4



NOTES:

Density = 0.92g/mL

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.
 Total THC = THC + (THCa *(0.877)) and
 Total CBD = CBD + (CBDa *(0.877))
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Daniel Weidensaul 4-Dec-2020 4:23 PM		Greg Zimpfer 4-Dec-2020 5:30 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

A049

Batch ID:	N/A	Test ID:	T000113733
Type:	Other	Submitted:	12/04/2020 @ 10:39 AM
Test:	Metals	Started:	12/8/2020
Method:	TM19	Reported:	12/9/2020

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.066 - 6.60	ND
Cadmium	0.061 - 6.12	ND
Mercury	0.063 - 6.27	ND
Lead	0.062 - 6.20	ND

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

FINAL APPROVALDaniel Weidensaul
9-Dec-2020
11:20 AMBen Minton
9-Dec-2020
12:09 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.

A049

Batch ID:	N/A	Test ID:	T000113730
Type:	Edible	Submitted:	12/04/2020 @ 10:39 AM
Test:	Microbial Contaminants	Started:	12/4/2020
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	12/7/2020

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	Absent
STEC and 0157 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

FINAL APPROVAL
Sarah Henning
7-Dec-2020
2:04 PM
Greg Zimpfer
7-Dec-2020
5:21 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 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

A049


Batch ID:		Test ID:	T000113732
Type:	Concentrate	Submitted:	12/04/2020 @ 10:39 AM
Test:	Pesticides	Started:	12/9/2020
Method:	TM17	Reported:	12/10/2020

PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	41 - 2431	ND*	Malathion	293 - 2431	ND*
Acetamiprid	45 - 2431	ND*	Metalaxyl	41 - 2431	ND*
Abamectin	>322	ND*	Methiocarb	39 - 2431	ND*
Azoxystrobin	48 - 2431	ND*	Methomyl	48 - 2431	ND*
Bifenazate	36 - 2431	ND*	MGK 264 1	164 - 2431	ND*
Boscalid	38 - 2431	ND*	MGK 264 2	107 - 2431	ND*
Carbaryl	43 - 2431	ND*	Myclobutanil	21 - 2431	ND*
Carbofuran	41 - 2431	ND*	Naled	46 - 2431	ND*
Chlorantraniliprole	49 - 2431	ND*	Oxamyl	44 - 2431	ND*
Chlorpyrifos	36 - 2431	ND*	Paclobutrazol	41 - 2431	ND*
Clofentezine	278 - 2431	ND*	Permethrin	296 - 2431	ND*
Diazinon	291 - 2431	ND*	Phosmet	42 - 2431	ND*
Dichlorvos	>285	ND*	Prophos	271 - 2431	ND*
Dimethoate	46 - 2431	ND*	Propoxur	39 - 2431	ND*
E-Fenpyroximate	271 - 2431	ND*	Pyridaben	270 - 2431	ND*
Etofenprox	44 - 2431	ND*	Spinosad A	28 - 2431	ND*
Etoxazole	292 - 2431	ND*	Spinosad D	78 - 2431	ND*
Fenoxycarb	>43	ND*	Spiromesifen	>280	ND*
Fipronil	53 - 2431	ND*	Spirotetramat	>305	ND*
Flonicamid	75 - 2431	ND*	Spiroxamine 1	18 - 2431	ND*
Fludioxonil	>268	ND*	Spiroxamine 2	22 - 2431	ND*
Hexythiazox	45 - 2431	ND*	Tebuconazole	300 - 2431	ND*
Imazalil	294 - 2431	ND*	Thiacloprid	46 - 2431	ND*
Imidacloprid	47 - 2431	ND*	Thiamethoxam	43 - 2431	ND*
Kresoxim-methyl	44 - 2431	ND*	Trifloxystrobin	43 - 2431	ND*

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

N/A

FINAL APPROVAL

 Tyler Wiese
 10-Dec-2020
 4:02 PM

PREPARED BY / DATE

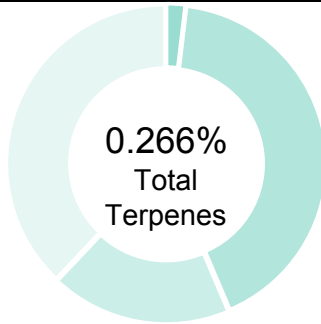

 Greg Zimpfer
 10-Dec-2020
 5:28 PM

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.

A049

Batch ID:		Test ID:	T000113731
Type:	Concentrate	Submitted:	12/04/2020 @ 10:39 AM
Test:	Terpenes	Started:	12/8/2020
Method:	TM22	Reported:	12/9/2020

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.101	1.01
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.111	1.11
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.049	0.49
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.005	0.05
beta-Myrcene	0.000	0
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	0.266%	2.66



PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.000%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.005%
beta-Caryophyllene	0.111%
alpha-Humulene	0.049%
(-)-alpha-Bisabolol	0.101%

NOTES:

0

FINAL APPROVAL

 Ryan Weems 9-Dec-2020 4:29 PM	 Greg Zimpfer 9-Dec-2020 5:39 PM
--	--

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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

A049

Batch ID:		Test ID:	T000113729
Type:	Concentrate	Submitted:	12/04/2020 @ 10:39 AM
Test:	Residual Solvents	Started:	12/8/2020
Method:	TM04	Reported:	12/8/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	105 - 2092	*ND
Butanes (Isobutane, n-Butane)	191 - 3815	*ND
Methanol	60 - 1195	*ND
Pentane	93 - 1865	*ND
Ethanol	97 - 1934	*ND
Acetone	95 - 1899	*ND
Isopropyl Alcohol	99 - 1971	*ND
Hexane	6 - 115	*ND
Ethyl Acetate	97 - 1935	*ND
Benzene	0.2 - 4	*ND
Heptanes	93 - 1859	*ND
Toluene	17 - 345	*ND
Xylenes (m,p,o-Xylenes)	124 - 2480	*ND


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

NOTES:
N/A

FINAL APPROVAL


Mara Miller
8-Dec-2020
2:59 PM

PREPARED BY / DATE


Ben Minton
8-Dec-2020
5:45 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