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CERTIFICATE OF ANALYSIS

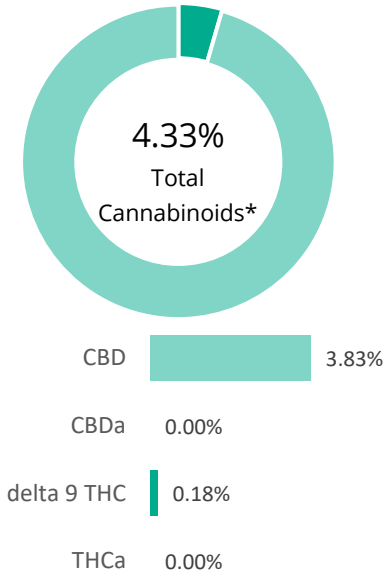
prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_BAL_MMR

Batch ID:	B0016	**Test ID:**	T000150001
Type:	Concentrate	**Submitted:**	07/09/2021 @ 12:46 PM
Test:	Potency	**Started:**	7/13/2021
Method:	TM14	**Reported:**	7/14/2021

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.04	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.05	0.18	1.8
Cannabidiolic acid (CBDA)	0.05	ND	ND
Cannabidiol (CBD)	0.05	3.83	38.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.06	ND	ND
Cannabinolic Acid (CBNA)	0.03	ND	ND
Cannabinol (CBN)	0.01	ND	ND
Cannabigerolic acid (CBGA)	0.05	ND	ND
Cannabigerol (CBG)	0.01	0.24	2.4
Tetrahydrocannabivarinic Acid (THCVA)	0.04	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)	0.02	0.08	0.8
Total Cannabinoids		**4.33**	**43.3**
Total Potential THC**		0.18	1.8
Total Potential CBD**		3.83	38.3

% = % (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

Taylor Brevik
14-Jul-2021
6:00 PM
PREPARED BY / DATE

Daniel Weidensaul
14-Jul-2021
6:05 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

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CERTIFICATE OF ANALYSIS

prepared for: BEAK AND SKIFF RESEARCH

4473 CHERRY VALLEY TPKE
LAFAYETTE, NY 13084

O_CBD_BAL_MMR

Batch ID:	B0016	**Test ID:**	T000150005
Type:	Topical	**Submitted:**	07/09/2021 @ 12:46 PM
Test:	Residual Solvents	**Started:**	7/14/2021
Method:	TM04	**Reported:**	7/14/2021

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	83 - 1656	*ND
Butanes (Isobutane, n-Butane)	165 - 3295	*ND
Methanol	69 - 1389	*ND
Pentane	95 - 1894	*ND
Ethanol	102 - 2048	*ND
Acetone	106 - 2122	*ND
Isopropyl Alcohol	117 - 2343	*ND
Hexane	7 - 131	*ND
Ethyl Acetate	109 - 2181	*ND
Benzene	0.2 - 4.3	*ND
Heptanes	103 - 2055	*ND
Toluene	19 - 389	*ND
Xylenes (m,p,o-Xylenes)	140 - 2797	*ND

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

NOTES:
N/A

FINAL APPROVAL

Samantha Smith
Sam Smith
14-Jul-2021
4:52 PM

PREPARED BY / DATE

Ryan Weems
Ryan Weems
14-Jul-2021
4:53 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_BAL_MMR

Batch ID:	B0016	**Test ID:**	T000150002
Type:	Concentrate	**Submitted:**	07/09/2021 @ 12:46 PM
Test:	Pesticides	**Started:**	7/13/2021
Method:	TM17	**Reported:**	7/14/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	45 - 2421	ND*
Acetamiprid	45 - 2421	ND*
Abamectin	>309	ND*
Azoxystrobin	43 - 2421	ND*
Bifenazate	39 - 2421	ND*
Boscalid	46 - 2421	ND*
Carbaryl	44 - 2421	ND*
Carbofuran	44 - 2421	ND*
Chlorantraniliprole	45 - 2421	ND*
Chlorpyrifos	47 - 2421	ND*
Clofentezine	279 - 2421	ND*
Diazinon	283 - 2421	ND*
Dichlorvos	>268	ND*
Dimethoate	43 - 2421	ND*
E-Fenpyroximate	299 - 2421	ND*
Etofenprox	43 - 2421	ND*
Etoxazole	298 - 2421	ND*
Fenoxycarb	>50	ND*
Fipronil	57 - 2421	ND*
Flonicamid	54 - 2421	ND*
Fludioxonil	>295	ND*
Hexythiazox	39 - 2421	ND*
Imazalil	293 - 2421	ND*
Imidacloprid	50 - 2421	ND*
Kresoxim-methyl	48 - 2421	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	283 - 2421	ND*
Metalaxyl	50 - 2421	ND*
Methiocarb	43 - 2421	ND*
Methomyl	41 - 2421	ND*
MGK 264 1	173 - 2421	ND*
MGK 264 2	123 - 2421	ND*
Myclobutanil	42 - 2421	ND*
Naled	52 - 2421	ND*
Oxamyl	39 - 2421	ND*
Paclobutrazol	42 - 2421	ND*
Permethrin	299 - 2421	ND*
Phosmet	42 - 2421	ND*
Prophos	283 - 2421	ND*
Propoxur	43 - 2421	ND*
Pyridaben	284 - 2421	ND*
Spinosad A	30 - 2421	ND*
Spinosad D	79 - 2421	ND*
Spiromesifen	>281	ND*
Spirotetramat	>274	ND*
Spiroxamine 1	19 - 2421	ND*
Spiroxamine 2	24 - 2421	ND*
Tebuconazole	298 - 2421	ND*
Thiacloprid	45 - 2421	ND*
Thiamethoxam	46 - 2421	ND*
Trifloxystrobin	43 - 2421	ND*

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

N/A

FINAL APPROVAL

Taylor Brevik
14-Jul-2021
2:00 PM

PREPARED BY / DATE

Sam Smith
14-Jul-2021
2:04 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

Prepared for:

O_CBD_BAL_MMR

Beak and Skiff Research

Batch ID or Lot Number:	Test:	Reported:	Location:
B0016	**Metals**	**7/15/21**	4473 Cherry Valley Tpke Lafayette, NY 13084

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000150004	7/15/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19: Heavy Metals	07/09/2021 @ 12:46 PM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Arsenic	0.046 - 4.63	ND
Cadmium	0.044 - 4.38	ND
Mercury	0.044 - 4.41	ND
Lead	0.043 - 4.34	ND

Notes

Sam Smith
15-Jul-21
2:54 PM

PREPARED BY / DATE

Daniel Weidensaul
15-Jul-21
2:56 PM

APPROVED BY / DATE

Definitions

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

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CERTIFICATE OF ANALYSIS

prepared for: BEAK AND SKIFF RESEARCH
4473 CHERRY VALLEY TPKE
LAFAYETTE, NY 13084

O_CBD_BAL_MMR

Batch ID:	B0016	**Test ID:**	T000150003
Matrix:	Finished Product	**Received:**	07/09/2021 @ 12:46 PM
Test:	Microbial Contaminants	**Started:**	7/12/2021
Method:	TM24, TM25, TM26, TM27, TM28	**Reported:**	7/15/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LOQ	Result
Total Aerobic Count*	TM-26 Culture Plating	10^2 CFU/gram	10^3 CFU/gram	**None Detected**
Total Coliforms*	TM-27 Culture Plating	10^1 CFU/gram	10^2 CFU/gram	**None Detected**
Total Yeast and Molds*	TM-24 Culture Plating	10^1 CFU/gram	10^2 CFU/gram	**None Detected**
E. coli	TM-28 Culture Plating	1 CFU/gram	NA	**Absent**
E. coli (STEC)	TM-25 PCR	1 CFU/gram	NA	**Absent**
Salmonella	TM-25 PCR	1 CFU/gram	NA	**Absent**

CFU/g = Colony Forming Units 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
Total Coliforms: None Detected

FINAL APPROVAL

Robert Belfon
15-Jul-2021
1:42 PM

PREPARED BY / DATE

Sarah Henning
15-Jul-2021
2:15 PM

APPROVED BY / DATE

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