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CERTIFICATE OF ANALYSIS

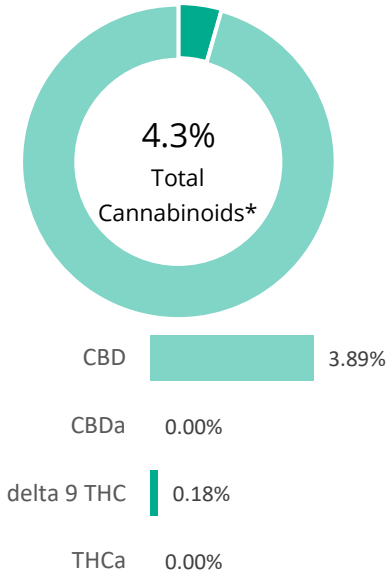
prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_BAL_LRE

Batch ID:	B0014	**Test ID:**	T000149991
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	3.89	38.9
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	0.15	1.5
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		**4.30**	**43.0**
Total Potential THC**		0.18	1.8
Total Potential CBD**		3.89	38.9

% = % (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	Daniel Weidensaul 14-Jul-2021 6:05 PM
PREPARED BY / DATE	APPROVED BY / DATE

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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_LRE

Batch ID:	B0014	**Test ID:**	T000149995
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	72 - 1433	*ND
Butanes (Isobutane, n-Butane)	143 - 2852	*ND
Methanol	60 - 1203	*ND
Pentane	82 - 1639	*ND
Ethanol	89 - 1773	*ND
Acetone	92 - 1837	*ND
Isopropyl Alcohol	101 - 2028	*ND
Hexane	6 - 113	*ND
Ethyl Acetate	94 - 1889	*ND
Benzene	0.2 - 3.7	*ND
Heptanes	89 - 1779	*ND
Toluene	17 - 337	*ND
Xylenes (m,p,o-Xylenes)	121 - 2421	*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_LRE

Batch ID:	B0014	**Test ID:**	T000149992
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	47 - 2537	ND*
Acetamiprid	47 - 2537	ND*
Abamectin	>324	ND*
Azoxystrobin	45 - 2537	ND*
Bifenazate	41 - 2537	ND*
Boscalid	48 - 2537	ND*
Carbaryl	46 - 2537	ND*
Carbofuran	46 - 2537	ND*
Chlorantraniliprole	47 - 2537	ND*
Chlorpyrifos	49 - 2537	ND*
Clofentezine	293 - 2537	ND*
Diazinon	296 - 2537	ND*
Dichlorvos	>280	ND*
Dimethoate	45 - 2537	ND*
E-Fenpyroximate	313 - 2537	ND*
Etofenprox	45 - 2537	ND*
Etoxazole	313 - 2537	ND*
Fenoxycarb	>52	ND*
Fipronil	59 - 2537	ND*
Flonicamid	57 - 2537	ND*
Fludioxonil	>309	ND*
Hexythiazox	41 - 2537	ND*
Imazalil	307 - 2537	ND*
Imidacloprid	52 - 2537	ND*
Kresoxim-methyl	50 - 2537	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	296 - 2537	ND*
Metalaxyl	52 - 2537	ND*
Methiocarb	46 - 2537	ND*
Methomyl	43 - 2537	ND*
MGK 264 1	182 - 2537	ND*
MGK 264 2	129 - 2537	ND*
Myclobutanil	44 - 2537	ND*
Naled	54 - 2537	ND*
Oxamyl	41 - 2537	ND*
Paclobutrazol	44 - 2537	ND*
Permethrin	313 - 2537	ND*
Phosmet	44 - 2537	ND*
Prophos	296 - 2537	ND*
Propoxur	46 - 2537	ND*
Pyridaben	297 - 2537	ND*
Spinosad A	31 - 2537	ND*
Spinosad D	83 - 2537	ND*
Spiromesifen	>294	ND*
Spirotetramat	>287	ND*
Spiroxamine 1	20 - 2537	ND*
Spiroxamine 2	25 - 2537	ND*
Tebuconazole	312 - 2537	ND*
Thiacloprid	47 - 2537	ND*
Thiamethoxam	48 - 2537	ND*
Trifloxystrobin	45 - 2537	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_LRE

Beak and Skiff Research

Batch ID or Lot Number:	Test:	Reported:	Location:
B0014	**Metals**	**7/15/21**	4473 Cherry Valley Tpke Lafayette, NY 13084

Matrix:	Test ID:	Started:	USDA License:
Unit	T000149994	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_LRE

Batch ID:	B0014	**Test ID:**	T000149993
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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