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CERTIFICATE OF ANALYSIS

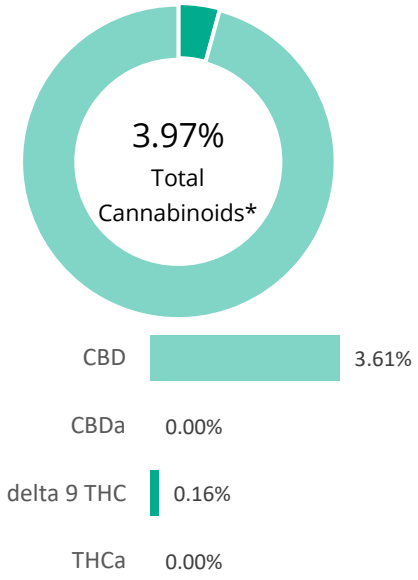
prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_BAL_BCS

Batch ID:	B0022	**Test ID:**	T000178208
Type:	Concentrate	**Submitted:**	11/24/2021 @ 10:13 AM
Test:	Potency	**Started:**	11/29/2021
Method:	TM14 (HPLC-DAD)	**Reported:**	11/30/2021

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.05	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.05	0.16	1.6
Cannabidiolic acid (CBDA)	0.05	ND	ND
Cannabidiol (CBD)	0.05	3.61	36.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.06	ND	ND
Cannabinolic Acid (CBNA)	0.03	ND	ND
Cannabinol (CBN)	0.02	ND	ND
Cannabigerolic acid (CBGA)	0.05	ND	ND
Cannabigerol (CBG)	0.01	0.13	1.3
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	0.07	0.7
Total Cannabinoids		**3.97**	**39.7**
Total Potential THC**		0.16	1.6
Total Potential CBD**		3.61	36.1

% = % (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

K Winternheimer
Karen Winternheime
30-Nov-2021
4:11 PM
PREPARED BY / DATE

Samantha Smith
Sam Smith
30-Nov-2021
4:17 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

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Certificate #4329.02

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CERTIFICATE OF ANALYSIS

Prepared for:

O_CBD_BAL_BCS

Beak and Skiff Research

Batch ID or Lot Number:	Test:	Reported:	Location:
B0022	**Residual Solvents**	**11/30/21**	4473 Cherry Valley Tpke Lafayette, NY 13084

Matrix:	Test ID:	Started:	USDA License:
N/A	T000178212	11/30/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvents	11/24/2021 @ 10:13 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	92 - 1838	*ND
Butanes (Isobutane, n-Butane)	182 - 3638	*ND
Methanol	54 - 1079	*ND
Pentane	75 - 1496	*ND
Ethanol	76 - 1528	*ND
Acetone	88 - 1764	*ND
Isopropyl Alcohol	92 - 1839	*ND
Hexane	5 - 107	*ND
Ethyl Acetate	88 - 1768	*ND
Benzene	0.2 - 3.5	*ND
Heptanes	83 - 1665	*ND
Toluene	16 - 322	*ND
Xylenes (m,p,o-Xylenes)	116 - 2318	*ND

Notes

Daniel Weidensaul
30-Nov-21
7:54 PM
PREPARED BY / DATE

Ryan Weems
30-Nov-21
8:02 PM
APPROVED BY / DATE

Definitions

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

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CERTIFICATE OF ANALYSIS

Prepared for:

O_CBD_BAL_BCS

Beak and Skiff Research

Batch ID or Lot Number:	Test:	Reported:	Location:
B0022	**Pesticides**	**12/2/21**	4473 Cherry Valley Tpke Lafayette, NY 13084

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000178209	12/1/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	11/24/2021 @ 10:13 AM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	39	ND	**Fenoxycarb**	43	ND	**Paclobutrazol**	48	ND
Acetamiprid	41	ND	**Fipronil**	50	ND	**Permethrin**	284	ND
Avermectin	339	ND	**Flonicamid**	48	ND	**Phosmet**	39	ND
Azoxystrobin	46	ND	**Fludioxonil**	316	ND	**Prophos**	312	ND
Bifenazate	41	ND	**Hexythiazox**	39	ND	**Propoxur**	44	ND
Boscalid	36	ND	**Imazalil**	283	ND	**Pyridaben**	290	ND
Carbaryl	41	ND	**Imidacloprid**	50	ND	**Spinosad A**	35	ND
Carbofuran	44	ND	**Kresoxim-methyl**	150	ND	**Spinosad D**	52	ND
Chlorantraniliprole	67	ND	**Malathion**	302	ND	**Spiromesifen**	290	ND
Chlorpyrifos	500	ND	**Metalaxyl**	44	ND	**Spirotetramat**	290	ND
Clofentezine	293	ND	**Methiocarb**	43	ND	**Spiroxamine 1**	19	ND
Diazinon	284	ND	**Methomyl**	42	ND	**Spiroxamine 2**	24	ND
Dichlorvos	293	ND	**MGK 264 1**	203	ND	**Tebuconazole**	306	ND
Dimethoate	42	ND	**MGK 264 2**	123	ND	**Thiacloprid**	41	ND
E-Fenpyroximate	280	ND	**Myclobutanil**	42	ND	**Thiamethoxam**	43	ND
Etofenprox	44	ND	**Naled**	47	ND	**Trifloxystrobin**	44	ND
Etoxazole	304	ND	**Oxamyl**	1500	ND			

Karen Winternheimer
12/2/2021
3:50:00 PM

PREPARED BY / DATE

Sam Smith
12/2/2021
3:57:00 PM

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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.

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CERTIFICATE OF ANALYSIS

Prepared for:

O_CBD_BAL_BCS

Beak and Skiff Research

Batch ID or Lot Number:	Test:	Reported:	Location:
B0022	**Metals**	**12/1/21**	4473 Cherry Valley Tpke Lafayette, NY 13084

Matrix:	Test ID:	Started:	USDA License:
Unit	T000178211	11/30/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals	11/24/2021 @ 10:13 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.046 - 4.63	ND
Cadmium	0.045 - 4.47	ND
Mercury	0.044 - 4.42	ND
Lead	0.044 - 4.42	ND

Notes

Ryan Weems
1-Dec-21
3:19 PM
PREPARED BY / DATE

Sam Smith
1-Dec-21
3:22 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_BCS

Batch ID:	B0022	**Test ID:**	T000178210
Matrix:	Finished Product	**Received:**	11/24/2021 @ 10:13 AM
Test:	Microbial Contaminants	**Started:**	11/29/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	**Reported:**	12/2/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26 Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	**None Detected**
Total Coliforms*	TM-27 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	**None Detected**
Total Yeast and Molds*	TM-24 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	**None Detected**
E. coli	TM-28 Culture Plating	1 CFU/g	NA	NA	**Absent**
***E. coli* (STEC)**	TM-25 PCR	1 CFU/g	NA	NA	**Absent**
Salmonella	TM-25 PCR	1 CFU/g	NA	NA	**Absent**

** 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

DEFINITIONS:
CFU/g = Colony Forming Units per Gram.
LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation
LLOQ = Lower Limit of Quantitation

FINAL APPROVAL

Jackson Osaghae-Nosa
12/2/2021
9:46:00 AM
PREPARED BY / DATE

Brianne Maillot
12/2/2021
11:14:00 AM
APPROVED BY / DATE

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Certificate #4329.03

CERTIFICATE OF ANALYSIS

Beak & Skiff Research
4473 Cherry Valley Turnpike
Lafayette, NY 13084
luke@beakandskiff.com
(315) 506-4981
Lic. #: DOH-P-000032

Sample: 220329TRI003.008
Sample Description: O_CBD_BAL_BCS
Batch# : 032922CB-HH;
Sample Received: 04/01/2022; Report Created: 04/04/2022;

B0022
Topical, Salve

Mycotoxins
Pass

Date Analyzed: 04/01/2022

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Aflatoxin B1	0.00146	0.00487		ND	Tested
Aflatoxin B2	0.00146	0.00487		ND	Tested
Aflatoxin G1	0.00146	0.00487		ND	Tested
Aflatoxin G2	0.00146	0.00487		ND	Tested
Total Aflatoxins			0.0200	ND	Pass
Ochratoxin A	0.00584	0.0195	0.0200	ND	Pass

SOP.402; LC-MS/MS.

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Kristen Goedde
Lab Manager

Tom Barkley
Technical Manager

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ND=Not Detected, NR=Not Reported, LOD=Limit of Detection, LOQ=Limit of Quantitation. Action levels reported for contaminants are in accordance with 10 NYCRR §1005 issued by the New York Cannabinoid Hemp Program. Values reported relate only to the product tested and batched under the batch number identified above. Trichome Analytical makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected level of any compounds reported herein. All analytical work is performed using validated methods and in accordance with state and/or federal guidelines. This certificate may only be reproduced in full.