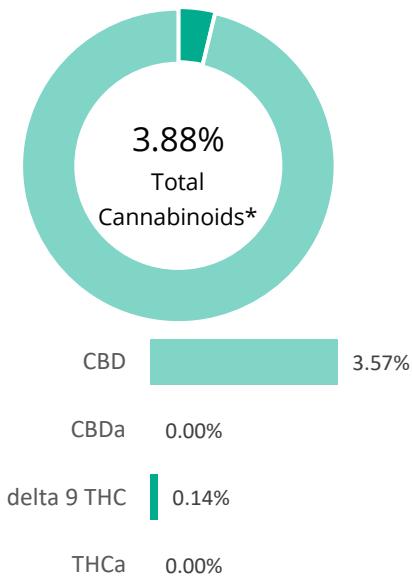


CBD_BAL_HIY

Batch ID:	B0023	Test ID:	T000178213
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	0.14	1.4
Cannabidiolic acid (CBDA)	0.05	ND	ND
Cannabidiol (CBD)	0.05	3.57	35.7
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	0.11	1.1
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	0.06	0.6
Total Cannabinoids		3.88	38.8
Total Potential THC**		0.14	1.4
Total Potential CBD**		3.57	35.7

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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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

FINAL APPROVAL

K Winternheimer
 Karen Winternheimer
 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



Certificate #4329.02


Prepared for:


CBD_BAL_HIY
Beak and Skiff Research

Batch ID or Lot Number: B0023	Test: Residual Solvents	Reported: 11/30/21	Location: 4473 Cherry Valley Tpke Lafayette, NY 13084
Matrix: N/A	Test ID: T000178217	Started: 11/30/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/24/2021 @ 10:13 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	101 - 2016	*ND	
Butanes (Isobutane, n-Butane)	200 - 3990	*ND	
Methanol	59 - 1184	*ND	
Pentane	82 - 1641	*ND	
Ethanol	84 - 1676	*ND	
Acetone	97 - 1935	*ND	
Isopropyl Alcohol	101 - 2017	*ND	
Hexane	6 - 117	*ND	
Ethyl Acetate	97 - 1939	*ND	
Benzene	0.2 - 3.9	*ND	
Heptanes	91 - 1826	*ND	
Toluene	18 - 353	*ND	
Xylenes (m,p,o-Xylenes)	127 - 2543	*ND	


 Daniel Weidensaul
 30-Nov-21
 7:54 PM


 Ryan Weems
 30-Nov-21
 8:02 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Prepared for:


CBD_BAL_HIY
Beak and Skiff Research

Batch ID or Lot Number: B0023	Test: Pesticides	Reported: 12/2/21	Location: 4473 Cherry Valley Tpke Lafayette, NY 13084
Matrix: Concentrate	Test ID: T000178214	Started: 12/1/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/24/2021 @ 10:13 AM	Sampler ID: 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


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

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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Prepared for:

CBD_BAL_HIY
Beak and Skiff Research


Batch ID or Lot Number: B0023	Test: Metals	Reported: 12/1/21	Location: 4473 Cherry Valley Tpke Lafayette, NY 13084
Matrix: Unit	Test ID: T000178216	Started: 11/30/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals	Received: 11/24/2021 @ 10:13 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

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


 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 #4329.02

CBD_BAL_HIY

Batch ID:	B0023	Test ID:	T000178215
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: 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 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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