botanacor

CERTIFICATE OF ANALYSIS

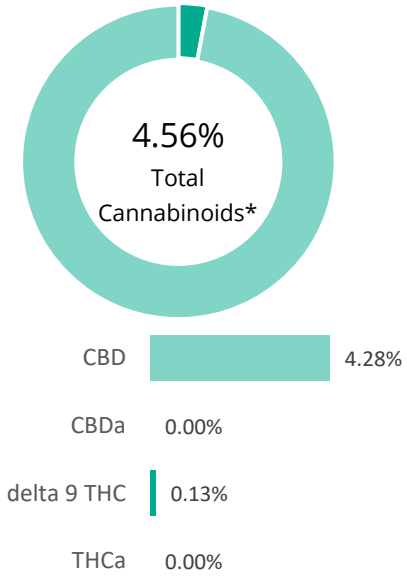
prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_DOIL_1200

Batch ID:	T0024	**Test ID:**	T000138325
Type:	Concentrate	**Submitted:**	05/03/2021 @ 10:10 AM
Test:	Potency	**Started:**	5/4/2021
Method:	TM14	**Reported:**	5/5/2021

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	0.13	1.3
Cannabidiolic acid (CBDA)	0.01	ND	ND
Cannabidiol (CBD)	0.01	4.28	42.8
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.01	ND	ND
Cannabinol (CBN)	0.00	ND	ND
Cannabigerolic acid (CBGA)	0.01	ND	ND
Cannabigerol (CBG)	0.00	0.06	0.6
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.00	0.02	0.2
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.01	0.07	0.7
Total Cannabinoids		**4.56**	**45.6**
Total Potential THC**		0.13	1.3
Total Potential CBD**		4.28	42.8

% = % (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

Rvan Weems
5-Mav-2021
12:00 PM
PREPARED BY / DATE

Daniel Weidensaul
5-Mav-2021
12:04 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

ilac-MRA A2LA ACCREDITED
Certificate #4329.02

Botanacor Laboratories™, All Rights Reserved | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com

botanacor

CERTIFICATE OF ANALYSIS

prepared for: BEAK AND SKIFF RESEARCH

4473 CHERRY VALLEY TPKE
LAFAYETTE, NY 13084

O_CBD_DOIL_1200

Batch ID:	T0024	**Test ID:**	T000138329
Type:	Concentrate	**Submitted:**	05/03/2021 @ 10:10 AM
Test:	Residual Solvents	**Started:**	5/5/2021
Method:	TM04	**Reported:**	5/5/2021

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	76 - 1517	*ND
Butanes (Isobutane, n-Butane)	150 - 3002	*ND
Methanol	64 - 1288	*ND
Pentane	88 - 1761	*ND
Ethanol	94 - 1880	*ND
Acetone	101 - 2023	*ND
Isopropyl Alcohol	116 - 2316	*ND
Hexane	6 - 124	*ND
Ethyl Acetate	104 - 2086	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	97 - 1933	*ND
Toluene	19 - 372	*ND
Xylenes (m,p,o-Xylenes)	136 - 2716	*ND

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

NOTES:
N/A

FINAL APPROVAL

Samantha Smith
Sam Smith
5-May-2021
2:35 PM

PREPARED BY / DATE

Ryan Weems
Ryan Weems
5-May-2021
2:36 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

ilac-MRA A2LA ACCREDITED
Certificate #4329.02

Botanacor Laboratories™, All Rights Reserved | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com

botanacor

CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_DOIL_1200

Batch ID:	T0024	**Test ID:**	T000138326
Type:	Concentrate	**Submitted:**	05/03/2021 @ 10:10 AM
Test:	Pesticides	**Started:**	5/5/2021
Method:	TM17	**Reported:**	5/6/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	34 - 2213	ND*
Acetamiprid	34 - 2213	ND*
Abamectin	>260	ND*
Azoxystrobin	36 - 2213	ND*
Bifenazate	32 - 2213	ND*
Boscalid	30 - 2213	ND*
Carbaryl	31 - 2213	ND*
Carbofuran	34 - 2213	ND*
Chlorantraniliprole	40 - 2213	ND*
Chlorpyrifos	39 - 2213	ND*
Clofentezine	238 - 2213	ND*
Diazinon	255 - 2213	ND*
Dichlorvos	>264	ND*
Dimethoate	34 - 2213	ND*
E-Fenpyroximate	250 - 2213	ND*
Etofenprox	36 - 2213	ND*
Etoxazole	266 - 2213	ND*
Fenoxycarb	>36	ND*
Fipronil	54 - 2213	ND*
Flonicamid	38 - 2213	ND*
Fludioxonil	>264	ND*
Hexythiazox	35 - 2213	ND*
Imazalil	239 - 2213	ND*
Imidacloprid	35 - 2213	ND*
Kresoxim-methyl	40 - 2213	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	252 - 2213	ND*
Metalaxyl	37 - 2213	ND*
Methiocarb	35 - 2213	ND*
Methomyl	34 - 2213	ND*
MGK 264 1	145 - 2213	ND*
MGK 264 2	105 - 2213	ND*
Myclobutanil	37 - 2213	ND*
Naled	42 - 2213	ND*
Oxamyl	33 - 2213	ND*
Paclobutrazol	35 - 2213	ND*
Permethrin	233 - 2213	ND*
Phosmet	33 - 2213	ND*
Prophos	269 - 2213	ND*
Propoxur	34 - 2213	ND*
Pyridaben	256 - 2213	ND*
Spinosad A	26 - 2213	ND*
Spinosad D	72 - 2213	ND*
Spiromesifen	>254	ND*
Spirotetramat	>244	ND*
Spiroxamine 1	14 - 2213	ND*
Spiroxamine 2	20 - 2213	ND*
Tebuconazole	254 - 2213	ND*
Thiacloprid	35 - 2213	ND*
Thiamethoxam	36 - 2213	ND*
Trifloxystrobin	38 - 2213	ND*

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

N/A

FINAL APPROVAL

Taylor Brevik
6-May-2021
8:13 AM

PREPARED BY / DATE

Sam Smith
6-May-2021
8:30 AM

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.

Botanacor Laboratories™, All Rights Reserved

botanacor

CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

O_CBD_DOIL_1200

Batch ID:	T0024	**Test ID:**	T000138328
Type:	Unit	**Submitted:**	05/03/2021 @ 10:10 AM
Test:	Metals	**Started:**	5/6/2021
Method:	TM19	**Reported:**	5/7/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.047 - 4.71	ND
Cadmium	0.047 - 4.66	ND
Mercury	0.047 - 4.66	ND
Lead	0.047 - 4.72	ND

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

FINAL APPROVAL

Ryan Weems
7-May-2021
12:21 PM

PREPARED BY / DATE

Sam Smith
7-May-2021
12:23 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.

Botanacor Laboratories™, All Rights Reserved

botanacor

CERTIFICATE OF ANALYSIS

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

O_CBD_DOIL_1200

Batch ID:	T0024	**Test ID:**	T000138327
Type:	Edible	**Submitted:**	05/03/2021 @ 10:10 AM
Test:	Microbial Contaminants	**Started:**	5/3/2021
Method:	TM24, TM25, TM26, TM27, TM28	**Reported:**	5/6/2021

MICROBIAL CONTAMINANTS

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

** 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
Coliforms: None Detected

FINAL APPROVAL

Sarah Henning
6-May-2021
10:01 AM

PREPARED BY / DATE

Robert Belfon
6-May-2021
10:45 AM

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.

ilac-MRA A2LA ACCREDITED
Certificate #4329.03

Botanacor Laboratories™, All Rights Reserved | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com