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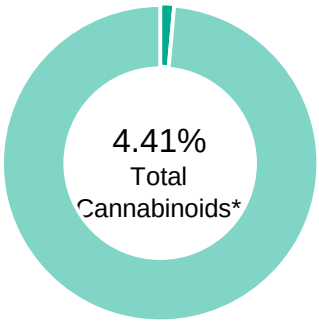
CERTIFICATE OF ANALYSIS

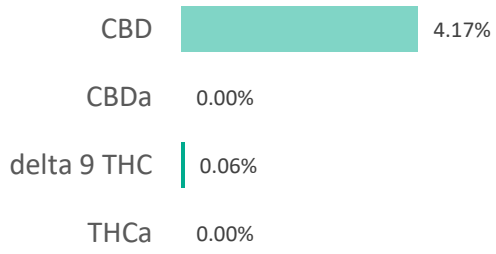
prepared for: Beak and Skiff Research
4472 Cherry Valley Tpke
Lafayette, NY 13084

CBD Oil Original 1200mg

Batch ID:	080621	**Test ID:**	T000089978
Reported:	11-Aug-2020	**Method:**	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE





Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.03	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	0.06	0.6
Cannabidiolic acid (CBDA)	0.09	ND	ND
Cannabidiol (CBD)	0.05	4.17	41.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.04	ND	ND
Cannabinol (CBN)	0.02	ND	ND
Cannabigerolic acid (CBGA)	0.03	ND	ND
Cannabigerol (CBG)	0.02	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.03	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.08	ND	ND
Cannabidivarin (CBDV)	0.05	ND	ND
Cannabichromenic Acid (CBCA)	0.02	ND	ND
Cannabichromene (CBC)	0.03	0.18	1.8
Total Cannabinoids		**4.41**	**44.1**
Total Potential THC**		0.06	0.6
Total Potential CBD**		4.17	41.7

% = % (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

Ryan Weems
11-Aug-2020
4:10 PM

PREPARED BY / DATE

Ben Minton
11-Aug-2020
4:35 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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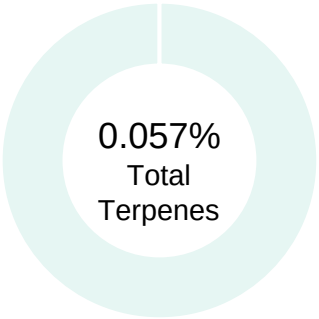
CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research
4472 Cherry Valley Tpke
Lafayette, NY 13084

CBD Oil Original 1200mg

Batch ID:	080621	**Test ID:**	8410520.0028
Reported:	14-Aug-2020	**Method:**	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.000%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.000%
beta-Caryophyllene	0.000%
alpha-Humulene	0.000%
(-)-alpha-Bisabolol	0.044%

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.044	0.44
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.000	0
(-)-Caryophyllene Oxide	0.013	0.13
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.000	0
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.000	0
beta-Myrcene	0.000	0
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	0.057%	**0.57**

NOTES:
0

FINAL APPROVAL

Michelle Gagnon
14-Aug-2020
11:54 AM

PREPARED BY / DATE

Greg Zimpfer
14-Aug-2020
12:27 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: BEAK AND SKIFF RESEARCH
4472 CHERRY VALLEY TPKE
LAFAYETTE, NY 13084

CBD Oil Original 1200mg

Batch ID:	080621	**Test ID:**	T000089979
Reported:	12-Aug-2020	**Method:**	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	72 - 1439	*ND
Butanes (Isobutane, n-Butane)	154 - 3072	*ND
Methanol	61 - 1229	*ND
Pentane	87 - 1732	*ND
Ethanol	86 - 1712	*ND
Acetone	100 - 2001	*ND
Isopropyl Alcohol	104 - 2078	*ND
Hexane	6 - 121	*ND
Ethyl Acetate	101 - 2012	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	94 - 1879	*ND
Toluene	18 - 367	*ND
Xylenes (m,p,o-Xylenes)	133 - 2650	*ND

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

NOTES:
N/A

FINAL APPROVAL

Ryan Weems
12-Aug-2020
2:25 PM

PREPARED BY / DATE

Greg Zimpfer
12-Aug-2020
5:27 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research
4472 Cherry Valley Tpke
Lafayette, NY 13084

CBD Oil Original 1200mg

Batch ID:	080621	**Test ID:**	6565092.0012
Reported:	13-Aug-2020	**Method:**	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	39 - 2316	ND*
Acetamiprid	41 - 2316	ND*
Abamectin	>309	ND*
Azoxystrobin	41 - 2316	ND*
Bifenazate	31 - 2316	ND*
Boscalid	42 - 2316	ND*
Carbaryl	37 - 2316	ND*
Carbofuran	40 - 2316	ND*
Chlorantraniliprole	32 - 2316	ND*
Chlorpyrifos	46 - 2316	ND*
Clofentezine	269 - 2316	ND*
Diazinon	279 - 2316	ND*
Dichlorvos	>260	ND*
Dimethoate	40 - 2316	ND*
E-Fenpyroximate	270 - 2316	ND*
Etofenprox	41 - 2316	ND*
Etoxazole	289 - 2316	ND*
Fenoxycarb	>37	ND*
Fipronil	46 - 2316	ND*
Flonicamid	47 - 2316	ND*
Fludioxonil	>257	ND*
Hexythiazox	37 - 2316	ND*
Imazalil	263 - 2316	ND*
Imidacloprid	40 - 2316	ND*
Kresoxim-methyl	39 - 2316	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	270 - 2316	ND*
Metalaxyl	41 - 2316	ND*
Methiocarb	37 - 2316	ND*
Methomyl	40 - 2316	ND*
MGK 264 1	161 - 2316	ND*
MGK 264 2	98 - 2316	ND*
Myclobutanil	38 - 2316	ND*
Naled	41 - 2316	ND*
Oxamyl	38 - 2316	ND*
Paclobutrazol	44 - 2316	ND*
Permethrin	277 - 2316	ND*
Phosmet	39 - 2316	ND*
Prophos	273 - 2316	ND*
Propoxur	39 - 2316	ND*
Pyridaben	283 - 2316	ND*
Spinosad A	28 - 2316	ND*
Spinosad D	76 - 2316	ND*
Spiromesifen	>258	ND*
Spirotetramat	>279	ND*
Spiroxamine 1	17 - 2316	ND*
Spiroxamine 2	22 - 2316	ND*
Tebuconazole	294 - 2316	ND*
Thiacloprid	39 - 2316	ND*
Thiamethoxam	38 - 2316	ND*
Trifloxystrobin	41 - 2316	ND*

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

N/A

FINAL APPROVAL

Tyler Wiese
13-Aug-2020
3:03 PM
PREPARED BY / DATE

Ben Minton
13-Aug-2020
4:26 PM
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research
4472 Cherry Valley Tpke
Lafayette, NY 13084

CBD Oil Original 1200mg

Batch ID:	080621	**Test ID:**	T000089983
Reported:	13-Aug-2020	**Method:**	TM19
Type:	Concentrate		
Test:	Metals		

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.078 - 7.84	ND
Cadmium	0.080 - 7.95	ND
Mercury	0.078 - 7.84	ND
Lead	0.079 - 7.93	ND

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

FINAL APPROVAL

Alex Smith
13-Aug-2020
2:37 PM
PREPARED BY / DATE

Ben Minton
13-Aug-2020
3:33 PM
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: BEAK AND SKIFF RESEARCH
4472 CHERRY VALLEY TPKE
LAFAYETTE, NY 13084

CBD Oil Original 1200mg

Batch ID:	080621	**Test ID:**	T000089980
Reported:	14-Aug-2020	**Method:**	Edible - Test Methods: TM05, TM06
Type:	Edible		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

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

** 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

Robert Belfon
14-Aug-2020
2:24 PM
PREPARED BY / DATE

Greg Zimpfer
14-Aug-2020
4:25 PM
APPROVED BY / DATE

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