

Prepared for:  
**Pet Relief**

### Pet Relief Organic 4% Blend CBD Organic Hemp Extract

Batch ID or Lot Number: **O-1064-1020-RE-OFFB**  
Test: **Potency**

Reported: **10/25/21**

Location:  
1800 Glenarm PI STE 701  
Denver, CO 80202

Matrix: **Concentrate**  
Test ID: **T000171146**

Started: **10/22/21**

USDA License:  
**N/A**


Status: **N/A**  
Method: **TM14 (HPLC-DAD): Potency -  
Standard Cannabinoid Analysis  
(Colorado Panel)**


Received: **10/21/2021 @ 09:47 AM**

Sampler ID:  
**N/A**

## CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.013	0.045	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.015	0.050	0.122	1.22	
Cannabidiolic acid (CBDA)	0.019	0.054	0.034*	0.34*	
Cannabidiol (CBD)	0.019	0.053	4.248	42.48	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.017	0.055	ND	ND	
Cannabinolic Acid (CBNA)	0.009	0.032	ND	ND	
Cannabinol (CBN)	0.004	0.015	0.009*	0.09*	
Cannabigerolic acid (CBGA)	0.014	0.047	ND	ND	
Cannabigerol (CBG)	0.003	0.011	0.085	0.85	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.039	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.023	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.034	0.34	
Cannabichromenic Acid (CBCA)	0.005	0.018	ND	ND	
Cannabichromene (CBC)	0.006	0.020	0.216	2.16	
<b>Total Cannabinoids</b>			<b>4.748</b>	<b>47.48</b>	
Total Potential THC**			0.122	1.22	
Total Potential CBD**			4.278	42.78	

 Jacob Miller  
25-Oct-2021  
06:52 PM

 Ryan Weems  
25-Oct-21  
6:53 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* 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))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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

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 #4329.02

**Pet Releaf Organic 4% Blend CBD Organic Hemp Extract**

Prepared for:  
**Pet Releaf**


Batch ID or Lot Number: <b>O-1064-1020-RE-OFFB</b>	Test: <b>Residual Solvents</b>	Reported: <b>10/25/21</b>	Location: 1800 Glenarm PI STE 701 Denver, CO 80202
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Matrix: N/A	Test ID: T000171150	Started: 10/25/21	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 10/21/2021 @ 09:47 AM	Sampler ID: N/A
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**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	72 - 1439	*ND	
Butanes (Isobutane, n-Butane)	144 - 2872	*ND	
Methanol	53 - 1066	*ND	
Pentane	76 - 1513	*ND	
Ethanol	81 - 1621	*ND	
Acetone	86 - 1714	*ND	
Isopropyl Alcohol	89 - 1771	*ND	
Hexane	5 - 105	*ND	
Ethyl Acetate	88 - 1756	*ND	
Benzene	0.2 - 3.5	*ND	
Heptanes	82 - 1643	*ND	
Toluene	16 - 316	*ND	
Xylenes (m,p,o-Xylenes)	116 - 2320	*ND	

 Hannah Wright  
25-Oct-21  
5:37 PM

 Ryan Weems  
25-Oct-21  
5:40 PM

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**Definitions**

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

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**Pet Relief Organic 4% Blend CBD Organic Hemp Extract**

 Prepared for:  
**Pet Relief**


Batch ID or Lot Number: <b>O-1064-1020-RE-OFFB</b>	Test: <b>Pesticides</b>	Reported: <b>10/27/21</b>	Location: 1800 Glenarm PI STE 701 Denver, CO 80202
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Matrix: Concentrate	Test ID: T000171147	Started: 10/26/21	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 10/21/2021 @ 09:47 AM	Sampler ID: N/A
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**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	35	ND	Fenoxycarb	49	ND	Paclobutrazol	56	ND
Acetamiprid	49	ND	Fipronil	51	ND	Permethrin	265	ND
Avermectin	279	ND	Flonicamid	47	ND	Phosmet	50	ND
Azoxystrobin	49	ND	Fludioxonil	296	ND	Prophos	275	ND
Bifenazate	48	ND	Hexythiazox	59	ND	Propoxur	45	ND
Boscalid	62	ND	Imazalil	275	ND	Pyridaben	256	ND
Carbaryl	48	ND	Imidacloprid	48	ND	Spinosad A	37	ND
Carbofuran	49	ND	Kresoxim-methyl	150	ND	Spinosad D	50	ND
Chlorantraniliprole	68	ND	Malathion	261	ND	Spiromesifen	349	ND
Chlorpyrifos	500	ND	Metalaxyl	51	ND	Spirotetramat	379	ND
Clofentezine	276	ND	Methiocarb	59	ND	Spiroxamine 1	23	ND
Diazinon	288	ND	Methomyl	50	ND	Spiroxamine 2	30	ND
Dichlorvos	275	ND	MGK 264 1	179	ND	Tebuconazole	275	ND
Dimethoate	51	ND	MGK 264 2	116	ND	Thiacloprid	46	ND
E-Fenpyroximate	310	ND	Myclobutanil	54	ND	Thiamethoxam	55	ND
Etofenprox	43	ND	Naled	48	ND	Trifloxystrobin	46	ND
Etoxazole	276	ND	Oxamyl	1500	ND			

  
 Sam Smith  
 10/27/2021  
 3:13:00 PM

  
 Daniel Weidensaul  
 10/27/2021  
 3:23:00 PM

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**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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**Pet Relief Organic 4% Blend CBD Organic Hemp Extract**

Prepared for:  
**Pet Relief**

Batch ID or Lot Number: <b>O-1064-1020-RE-OFFB</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>10/25/21</b>	Location: 1800 Glenarm PI STE 701 Denver, CO 80202
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Matrix: Concentrate	Test ID: T000171148	Started: 10/21/21	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/21/2021 @ 09:47 AM	Sampler ID: N/A
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## MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

*Brianne Maillot*  
 Brianne Maillot  
 10/25/2021  
 11:17:00 AM

*Carly Bader*  
 Carly Bader  
 10/25/2021  
 1:39:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* 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<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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**Pet Releaf Organic 4% Blend CBD Organic Hemp Extract**

Prepared for:  
**Pet Releaf**

Batch ID or Lot Number: <b>O-1064-1020-RE-OFFB</b>	Test: <b>Metals</b>	Reported: <b>10/26/21</b>	Location: 1800 Glenarm PI STE 701 Denver, CO 80202
Matrix: Concentrate Co	Test ID: T000171149	Started: 10/25/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 10/21/2021 @ 09:47 AM	Sampler ID: N/A

## HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.043 - 4.29	ND	
Cadmium	0.043 - 4.26	ND	
Mercury	0.041 - 4.06	ND	
Lead	0.044 - 4.41	ND	

 Ryan Weems  
 26-Oct-21  
 1:11 PM

PREPARED BY / DATE

 Sam Smith  
 26-Oct-21  
 1:13 PM

APPROVED BY / DATE

### Definitions

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

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Prepared for:  
**Pet Releaf**

**Pet Releaf Organic 4% Blend CBD Organic Hemp Extract**


Batch ID or Lot Number: <b>O-1064-1020-RE-OFFB</b>	Test: <b>Mycotoxins</b>	Reported: <b>10/25/21</b>	Location: 1800 Glenarm PI STE 701 Denver, CO 80202
Matrix: Concentrate	Test ID: T000171151	Started: 10/22/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 10/21/2021 @ 09:47 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.8 - 135	ND	N/A
Aflatoxin B1	1.3 - 34.5	ND	
Aflatoxin B2	0.9 - 33.9	ND	
Aflatoxin G1	1.2 - 34.1	ND	
Aflatoxin G2	1.2 - 33.1	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

  
 Ryan Weems  
 25-Oct-21  
 3:42 PM

PREPARED BY / DATE

  
 Sam Smith  
 25-Oct-21  
 3:45 PM

APPROVED BY / DATE

**Definitions**

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

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