

Prepared for:  
**Pet Releaf**

8100 Southpark Way  
Littleton, CO USA 80120

## Organic Hemp Oil 500mg

Batch ID or Lot Number: <b>0923T313</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 5
Reported: <b>03Oct2023</b>	Started: 29Sep2023	Received: 29Sep2023	

## Cannabinoids - Colorado Compliance


Test ID: T000257762


Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.479	4.739	16.941	0.61	# of Servings = 1
Cannabichromenic Acid (CBCA)	1.352	4.335	ND	ND	Sample Weight=28g
Cannabidiol (CBD)	4.318	12.202	516.742	18.46	
Cannabidiolic Acid (CBDA)	4.428	12.515	<LOQ	<LOQ	
Cannabidivarin (CBDV)	1.021	2.886	10.513	0.38	
Cannabidivarinic Acid (CBDVA)	1.847	5.221	ND	ND	
Cannabigerol (CBG)	0.839	2.691	9.863	0.35	
Cannabigerolic Acid (CBGA)	3.509	11.249	ND	ND	
Cannabinol (CBN)	1.095	3.510	ND	ND	
Cannabinolic Acid (CBNA)	2.394	7.675	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.181	13.401	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	3.797	12.171	13.928	0.50	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.364	10.783	ND	ND	
Tetrahydrocannabivarin (THCV)	0.764	2.448	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	2.967	9.511	ND	ND	
<b>Total Cannabinoids</b>			<b>567.987</b>	<b>20.30</b>	
Total Potential THC			13.928	0.50	
Total Potential CBD			516.742	18.46	

### Final Approval

  
Sam Smith  
03Oct2023  
12:26:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
03Oct2023  
12:29:00 PM MDT  
APPROVED BY / DATE

Approved: Paul Gennings QC 10-03-23

Prepared for:  
**Pet Releaf**

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## Microbial Contaminants - Colorado Compliance

Test ID: T000257764  
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

### Final Approval

  
Brianne Maillot  
02Oct2023  
04:00:00 PM MDT  
PREPARED BY / DATE

  
Eden Thompson-Wright  
03Oct2023  
09:16:00 AM MDT  
APPROVED BY / DATE

Prepared for:  
**Pet Relief**

8100 Southpark Way  
Littleton, CO USA 80120

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## Residual Solvents - Colorado Compliance


Test ID: T000257766

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1827	ND	
Butanes (Isobutane, n-Butane)	184 - 3680	ND	
Methanol	61 - 1217	ND	
Pentane	96 - 1912	ND	
Ethanol	103 - 2057	ND	
Acetone	98 - 1967	ND	
Isopropyl Alcohol	107 - 2149	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	102 - 2049	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	99 - 1985	ND	
Toluene	19 - 375	ND	
Xylenes (m,p,o-Xylenes)	141 - 2814	ND	

### Final Approval

  
 Karen Winternheimer  
 04Oct2023  
 10:57:00 AM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 04Oct2023  
 10:59:00 AM MDT  
 APPROVED BY / DATE

Prepared for:  
**Pet Releaf**

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Littleton, CO USA 80120

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### Pesticides


Test ID: T000257763

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	346 - 2757	ND		Malathion	295 - 2760	ND
Acephate	42 - 2746	ND		Metalaxyl	41 - 2728	ND
Acetamiprid	45 - 2715	ND		Methiocarb	47 - 2726	ND
Azoxystrobin	46 - 2708	ND		Methomyl	41 - 2731	ND
Bifenazate	48 - 2725	ND		MGK 264 1	155 - 1703	ND
Boscalid	48 - 2750	ND		MGK 264 2	109 - 1090	ND
Carbaryl	42 - 2724	ND		Myclobutanil	131 - 2721	ND
Carbofuran	43 - 2718	ND		Naled	47 - 2763	ND
Chlorantraniliprole	42 - 2734	ND		Oxamyl	43 - 2714	ND
Chlorpyrifos	47 - 2793	ND		Paclobutrazol	45 - 2736	ND
Clofentezine	281 - 2761	ND		Permethrin	300 - 2735	ND
Diazinon	293 - 2764	ND		Phosmet	47 - 2701	ND
Dichlorvos	269 - 2730	ND		Prophos	285 - 2671	ND
Dimethoate	46 - 2733	ND		Propoxur	43 - 2756	ND
E-Fenpyroximate	307 - 2785	ND		Pyridaben	303 - 2742	ND
Etofenprox	46 - 2774	ND		Spinosad A	30 - 2083	ND
Etoxazole	318 - 2747	ND		Spinosad D	71 - 662	ND
Fenoxycarb	44 - 2689	ND		Spiromesifen	287 - 2776	ND
Fipronil	39 - 2814	ND		Spirotetramat	305 - 2796	ND
Flonicamid	48 - 2742	ND		Spiroxamine 1	20 - 1187	ND
Fludioxonil	317 - 2708	ND		Spiroxamine 2	25 - 1511	ND
Hexythiazox	43 - 2713	ND		Tebuconazole	301 - 2757	ND
Imazalil	284 - 2754	ND		Thiacloprid	44 - 2726	ND
Imidacloprid	43 - 2734	ND		Thiamethoxam	42 - 2747	ND
Kresoxim-methyl	42 - 2745	ND		Trifloxystrobin	43 - 2721	ND

### Final Approval

  
 Karen Winternheimer  
 05Oct2023  
 01:48:00 PM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 05Oct2023  
 01:50:00 PM MDT  
 APPROVED BY / DATE

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## Heavy Metals - Colorado Compliance


Test ID: T000257765

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.60	ND	
Cadmium	0.05 - 4.72	ND	
Mercury	0.05 - 4.68	ND	
Lead	0.05 - 4.65	ND	

### Final Approval

  
Sam Smith  
05Oct2023  
02:08:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
05Oct2023  
02:12:00 PM MDT  
APPROVED BY / DATE

Approved: Paul Gennings QC 10-03-23



<https://results.botanacor.com/api/v1/coas/uuid/d8b19c76-07a7-45a7-a115-4a450c222794>

**Definitions**  
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC 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)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units 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<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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details.](#)



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