

Prepared for:  
**PET RELEASE**8100 SOUTHPARK WAY A3  
LITTLETON, CO USA 80120**ORGANIC HEMP OIL 500mg**


Batch ID or Lot Number: <b>0622T307</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: <b>01Jul2022</b>	Started: 01Jul2022	Received: 30Jun2022	

**Heavy Metals**

Test ID: T000212703


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.08 - 7.57	ND	
Cadmium	0.08 - 7.89	ND	
Mercury	0.08 - 7.92	ND	
Lead	0.08 - 8.10	ND	

**Final Approval**

Kayla Phye  
01Jul2022  
04:26:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul  
01Jul2022  
04:27:00 PM MDT


APPROVED BY / DATE

**Microbial  
Contaminants**

Test ID: T000212702


Methods: TM25 (PCR) TM24, TM26,  
TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/g	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**

Carly Bader  
05Jul2022  
02:22:00 PM MDT

PREPARED BY / DATE



Brett Hudson  
05Jul2022  
04:57:00 PM MDT

APPROVED BY / DATE

Prepared for:  
**PET RELIEF**

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LITTLETON, CO USA 80120

**ORGANIC HEMP OIL 500mg**

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**Cannabinoids**

Test ID: T000212700


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.668	5.342	22.600	0.80	# of Servings = 1, Sample Weight=28g
Cannabichromenic Acid (CBCA)	1.525	4.886	ND	ND	
Cannabidiol (CBD)	4.491	13.552	518.410	18.50	
Cannabidiolic Acid (CBDA)	4.607	13.900	7.380	0.30	
Cannabidivarin (CBDV)	1.062	3.205	2.770	0.10	
Cannabidivarinic Acid (CBDVA)	1.922	5.798	ND	ND	
Cannabigerol (CBG)	0.947	3.033	15.740	0.60	
Cannabigerolic Acid (CBGA)	3.958	12.679	ND	ND	
Cannabinol (CBN)	1.235	3.957	2.770	0.10	
Cannabinolic Acid (CBNA)	2.700	8.651	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.716	15.106	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.283	13.719	19.980	0.70	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.794	12.155	ND	ND	
Tetrahydrocannabivarin (THCV)	0.861	2.759	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.347	10.721	ND	ND	
<b>Total Cannabinoids</b>			<b>589.650</b>	<b>21.06</b>	
Total Potential THC			19.980	0.71	
Total Potential CBD			524.882	18.75	

**Final Approval**

 Daniel Weidensaul  
05Jul2022  
02:04:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer  
05Jul2022  
02:06:00 PM MDT

APPROVED BY / DATE

Prepared for:

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**Residual Solvents**

Test ID: T000212704

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	90 - 1794	ND	
Butanes (Isobutane, n-Butane)	186 - 3718	ND	
Methanol	62 - 1250	ND	
Pentane	100 - 1997	ND	
Ethanol	86 - 1713	ND	
Acetone	104 - 2077	ND	
Isopropyl Alcohol	97 - 1936	ND	
Hexane	7 - 131	ND	
Ethyl Acetate	103 - 2068	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	103 - 2064	ND	
Toluene	17 - 346	ND	
Xylenes (m,p,o-Xylenes)	114 - 2281	ND	

**Final Approval**  
PREPARED BY / DATE  
Sam Smith  
06Jul2022  
01:45:00 PM MDT  
APPROVED BY / DATE  
Jacob Miller  
06Jul2022  
01:46:00 PM MDT

Prepared for:  
**PET RELIEF**

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LITTLETON, CO USA 80120

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**Pesticides**


Test ID: T000212701

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	350 - 2748	ND		Malathion	285 - 2743	ND
Acephate	39 - 2814	ND		Metalaxyl	46 - 2709	ND
Acetamiprid	41 - 2789	ND		Methiocarb	38 - 2783	ND
Azoxystrobin	41 - 2724	ND		Methomyl	38 - 2797	ND
Bifenazate	43 - 2710	ND		MGK 264 1	150 - 1615	ND
Boscalid	32 - 2814	ND		MGK 264 2	112 - 1138	ND
Carbaryl	37 - 2733	ND		Myclobutanil	37 - 2814	ND
Carbofuran	42 - 2725	ND		Naled	44 - 2779	ND
Chlorantraniliprole	39 - 2772	ND		Oxamyl	44 - 2787	ND
Chlorpyrifos	41 - 2802	ND		Paclobutrazol	42 - 2730	ND
Clofentezine	268 - 2783	ND		Permethrin	287 - 2813	ND
Diazinon	269 - 2798	ND		Phosmet	38 - 2726	ND
Dichlorvos	276 - 2817	ND		Prophos	281 - 2771	ND
Dimethoate	43 - 2777	ND		Propoxur	41 - 2735	ND
E-Fenpyroximate	278 - 2740	ND		Pyridaben	304 - 2777	ND
Etofenprox	43 - 2744	ND		Spinosad A	33 - 2230	ND
Etoazole	301 - 2732	ND		Spinosad D	58 - 505	ND
Fenoxycarb	43 - 2786	ND		Spiromesifen	271 - 2768	ND
Fipronil	57 - 2809	ND		Spirotetramat	282 - 2747	ND
Flonicamid	42 - 2739	ND		Spiroxamine 1	16 - 1188	ND
Fludioxonil	286 - 2832	ND		Spiroxamine 2	21 - 1583	ND
Hexythiazox	38 - 2779	ND		Tebuconazole	291 - 2730	ND
Imazalil	282 - 2750	ND		Thiacloprid	41 - 2779	ND
Imidacloprid	44 - 2830	ND		Thiamethoxam	44 - 2832	ND
Kresoxim-methyl	39 - 2808	ND		Trifloxystrobin	41 - 2781	ND

**Final Approval**

  
 Sam Smith  
 06Jul2022  
 03:31:00 PM MDT  
 PREPARED BY / DATE

  
 Daniel Weidensaul  
 06Jul2022  
 03:33:00 PM MDT  
 APPROVED BY / DATE

**APPROVED**

Justin Thomson 07/07/22

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<https://results.botanacor.com/api/v1/coas/uuid/4cab88b0-1dd2-47d7-b2f5-bfddee829e8>**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  $\times$  (0.877)) and Total CBD = CBD + (CBDa  $\times$  (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  $\times$  (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:  $10^2$  = 100 CFU,  $10^3$  = 1,000 CFU,  $10^4$  = 10,000 CFU,  $10^5$  = 100,000 CFU.

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 17025:2017 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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