

Prepared for:  
**PET RELEASE**

8100 SOUTHPARK WAY A3  
LITTLETON, CO USA 80120

## Organic Hemp Oil 500mg


Batch ID or Lot Number: <b>1122T309</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: <b>08Dec2022</b>	Started: 07Dec2022	Received: 06Dec2022	


## Cannabinoids - Colorado Compliance

Test ID: T000229918  
Methods: TM14 (HPLC-DAD): Potency – Standard  
Cannabinoid Analysis

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.977	6.749	17.898	0.64	# of Servings = 1 Sample Weight=28g
Cannabichromenic Acid (CBCA)	1.808	6.173	ND	ND	
Cannabidiol (CBD)	6.059	17.716	516.963	18.46	
Cannabidiolic Acid (CBDA)	6.214	18.171	ND	ND	
Cannabidivarin (CBDV)	1.433	4.190	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	2.592	7.580	ND	ND	
Cannabigerol (CBG)	1.122	3.832	10.501	0.38	
Cannabigerolic Acid (CBGA)	4.692	16.019	ND	ND	
Cannabinol (CBN)	1.464	4.999	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	3.201	10.930	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	5.590	19.085	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	5.077	17.333	20.744	0.74	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	4.498	15.357	ND	ND	
Tetrahydrocannabivarin (THCV)	1.021	3.486	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.968	13.545	ND	ND	
<b>Total Cannabinoids</b>			<b>566.106</b>	<b>20.22</b>	
Total Potential THC			20.744	0.74	
Total Potential CBD			516.963	18.46	

### Final Approval

  
Sam Smith  
08Dec2022  
12:08:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
08Dec2022  
12:11:00 PM MST  
APPROVED BY / DATE


## Heavy Metals - Colorado Compliance


Test ID: T000229921  
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.32	ND	
Cadmium	0.04 - 4.42	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.05 - 5.08	ND	

**APPROVED: Richie Bryan QA/QC 1/26/2023**

### Final Approval

  
Sam Smith  
08Dec2022  
01:13:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
08Dec2022  
01:16:00 PM MST  
APPROVED BY / DATE

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## Residual Solvents - Colorado Compliance


Test ID: T000229922

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	88 - 1763	ND	
Butanes (Isobutane, n-Butane)	177 - 3537	ND	
Methanol	58 - 1155	ND	
Pentane	100 - 1997	ND	
Ethanol	93 - 1854	ND	
Acetone	97 - 1938	ND	
Isopropyl Alcohol	100 - 1990	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	97 - 1934	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	97 - 1942	ND	
Toluene	17 - 337	ND	
Xylenes (m,p,o-Xylenes)	120 - 2394	ND	

### Final Approval

  
Karen Winternheimer  
08Dec2022  
03:05:00 PM MST  
PREPARED BY / DATE

  
Sam Smith  
08Dec2022  
03:08:00 PM MST  
APPROVED BY / DATE

**APPROVED: Richie Bryan QA/QC 1/26/2023**

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## Microbial Contaminants - Colorado Compliance

Test ID: T000229920  
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



Eden Thompson-Wright  
09Dec2022  
01:19:00 PM MST

PREPARED BY / DATE



Brianne Maillot  
10Dec2022  
06:53:00 PM MST

APPROVED BY / DATE

**APPROVED: Richie Bryan QA/QC 1/26/2023**

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### Pesticides


Test ID: T000229919

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	307 - 2586	ND		Malathion	277 - 2720	ND
Acephate	43 - 2758	ND		Metalaxyl	42 - 2720	ND
Acetamiprid	40 - 2708	ND		Methiocarb	39 - 2810	ND
Azoxystrobin	41 - 2728	ND		Methomyl	40 - 2722	ND
Bifenazate	38 - 2703	ND		MGK 264 1	160 - 1597	ND
Boscalid	40 - 2837	ND		MGK 264 2	120 - 1140	ND
Carbaryl	39 - 2727	ND		Myclobutanil	35 - 2824	ND
Carbofuran	42 - 2707	ND		Naled	44 - 2769	ND
Chlorantraniliprole	42 - 2800	ND		Oxamyl	39 - 2713	ND
Chlorpyrifos	38 - 2732	ND		Paclobutrazol	43 - 2704	ND
Clofentezine	276 - 2726	ND		Permethrin	276 - 2796	ND
Diazinon	277 - 2712	ND		Phosmet	41 - 2698	ND
Dichlorvos	271 - 2714	ND		Prophos	275 - 2805	ND
Dimethoate	41 - 2706	ND		Propoxur	41 - 2724	ND
E-Fenpyroximate	284 - 2741	ND		Pyridaben	307 - 2838	ND
Etofenprox	42 - 2751	ND		Spinosad A	32 - 2250	ND
Etoxazole	288 - 2728	ND		Spinosad D	46 - 500	ND
Fenoxycarb	43 - 2683	ND		Spiromesifen	277 - 2754	ND
Fipronil	49 - 2746	ND		Spirotetramat	289 - 2729	ND
Flonicamid	49 - 2764	ND		Spiroxamine 1	17 - 1218	ND
Fludioxonil	276 - 2816	ND		Spiroxamine 2	20 - 1602	ND
Hexythiazox	40 - 2751	ND		Tebuconazole	290 - 2698	ND
Imazalil	266 - 2750	ND		Thiacloprid	41 - 2710	ND
Imidacloprid	40 - 2722	ND		Thiamethoxam	38 - 2724	ND
Kresoxim-methyl	37 - 2733	ND		Trifloxystrobin	42 - 2751	ND

### Final Approval

  
 Karen Winternheimer  
 11Dec2022  
 11:28:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 11Dec2022  
 11:31:00 AM MST  
 APPROVED BY / DATE

**APPROVED: Richie Bryan QA/QC 1/26/2023**

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<https://results.botanacor.com/api/v1/coas/uuid/081189a6-5cf6-42c0-9e5b-11f0763cb59c>

### 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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