

Prepared for:
PET RELEASE

8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120

Organic Hemp Oil 500mg

Batch ID or Lot Number: 0422T306	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: 27Apr2022	Started: 26Apr2022	Received: 25Apr2022	


Residual Solvents

Test ID: T000204642


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	71 - 1429	ND	
Butanes (Isobutane, n-Butane)	144 - 2877	ND	
Methanol	49 - 984	ND	
Pentane	75 - 1507	ND	
Ethanol	77 - 1535	ND	
Acetone	81 - 1614	ND	
Isopropyl Alcohol	82 - 1647	ND	
Hexane	5 - 97	ND	
Ethyl Acetate	79 - 1581	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	81 - 1626	ND	
Toluene	14 - 288	ND	
Xylenes (m,p,o-Xylenes)	105 - 2096	ND	

Final Approval

 Daniel Weidensaul
27Apr2022
11:19:00 AM MDT

PREPARED BY / DATE

 Jacob Miller
27Apr2022
11:23:00 AM MDT

APPROVED BY / DATE


Heavy Metals

Test ID: T000204641


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.51	ND	
Cadmium	0.04 - 4.41	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.04 - 4.27	ND	

Final Approval

 Sam Smith
26Apr2022
03:45:00 PM MDT

PREPARED BY / DATE

 Daniel Weidensaul
26Apr2022
03:48:00 PM MDT

APPROVED BY / DATE

APPROVED

Justin Thomson 04/29/2022
NPD & Quality Manager

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Cannabinoids


Test ID: T000204638

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.578	4.679	27.250	1.00	# of Servings = 1, Sample Weight=28g
Cannabichromenic Acid (CBCA)	1.443	4.279	ND	ND	
Cannabidiol (CBD)	4.342	12.790	536.470	19.20	
Cannabidiolic Acid (CBDA)	4.453	13.118	ND	ND	
Cannabidivarin (CBDV)	1.027	3.025	2.570	0.10	
Cannabidivarinic Acid (CBDVA)	1.858	5.472	ND	ND	
Cannabigerol (CBG)	0.896	2.656	28.320	1.00	
Cannabigerolic Acid (CBGA)	3.744	11.105	ND	ND	
Cannabinol (CBN)	1.169	3.466	3.120	0.10	
Cannabinolic Acid (CBNA)	2.555	7.576	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.461	13.230	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.051	12.015	23.480	0.80	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.589	10.645	6.230	0.20	
Tetrahydrocannabivarin (THCV)	0.815	2.416	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.166	9.390	ND	ND	
Total Cannabinoids			627.440	22.41	
Total Potential THC			28.944	1.03	
Total Potential CBD			536.470	19.16	

Final Approval


 Ryan Weems
 29Apr2022
 06:10:00 PM MDT
 PREPARED BY / DATE


 Daniel Weidensaul
 29Apr2022
 06:16:00 PM MDT
 APPROVED BY / DATE

APPROVED

Justin Thomson 04/29/2022
 NPD & Quality Manager

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PET RELEAF8100 SOUTHPARK WAY A3
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**Microbial
Contaminants**

Test ID: T000204640

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

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

Final Approval
Eden Thompson-Wright
28Apr2022
10:06:00 AM MDT
PREPARED BY / DATE
Carly Bader
28Apr2022
03:46:00 PM MDT
APPROVED BY / DATE**APPROVED**Justin Thomson 04/29/2022
NPD & Quality Manager

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Pesticides


Test ID: T000204639

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	285 - 2628	ND		Malathion	282 - 2708	ND
Acephate	38 - 2770	ND		Metalaxyl	45 - 2675	ND
Acetamiprid	39 - 2819	ND		Methiocarb	42 - 2677	ND
Azoxystrobin	46 - 2530	ND		Methomyl	40 - 2841	ND
Bifenazate	48 - 2573	ND		MGK 264 1	173 - 1600	ND
Boscalid	47 - 2600	ND		MGK 264 2	109 - 1113	ND
Carbaryl	42 - 2744	ND		Myclobutanil	15 - 2793	ND
Carbofuran	45 - 2678	ND		Naled	53 - 2738	ND
Chlorantraniliprole	61 - 2572	ND		Oxamyl	38 - 2874	ND
Chlorpyrifos	48 - 2876	ND		Paclobutrazol	42 - 2774	ND
Clofentezine	246 - 2796	ND		Permethrin	300 - 2836	ND
Diazinon	294 - 2647	ND		Phosmet	44 - 2680	ND
Dichlorvos	279 - 2796	ND		Prophos	285 - 2734	ND
Dimethoate	41 - 2757	ND		Propoxur	42 - 2745	ND
E-Fenpyroximate	296 - 2610	ND		Pyridaben	291 - 2779	ND
Etofenprox	41 - 2786	ND		Spinosad A	35 - 2261	ND
Etoxazole	301 - 2740	ND		Spinosad D	48 - 509	ND
Fenoxycarb	33 - 2712	ND		Spiromesifen	316 - 2783	ND
Fipronil	32 - 2578	ND		Spirotetramat	248 - 2558	ND
Flonicamid	48 - 2811	ND		Spiroxamine 1	19 - 1170	ND
Fludioxonil	297 - 2676	ND		Spiroxamine 2	26 - 1553	ND
Hexythiazox	44 - 2697	ND		Tebuconazole	275 - 2750	ND
Imazalil	300 - 2740	ND		Thiacloprid	42 - 2777	ND
Imidacloprid	40 - 2795	ND		Thiamethoxam	40 - 2739	ND
Kresoxim-methyl	66 - 2546	ND		Trifloxystrobin	45 - 2705	ND

Final Approval


Daniel Weidensaul
29Apr2022
01:18:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
29Apr2022
01:20:00 PM MDT
APPROVED BY / DATE

APPROVED

Justin Thomson 04/29/2022
NPD & Quality Manager

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<https://results.botanacor.com/api/v1/coas/uuid/de611fb8-5a4d-4bd2-ad12-d1e27c2a29e1>**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: $10^2 = 100$ 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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