

Prepared for:

PET RELEAF8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120**Organic Hemp Oil 100mg**

Batch ID or Lot Number: 0422T106	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: 22Apr2022	Started: 21Apr2022	Received: 21Apr2022	

Residual Solvents

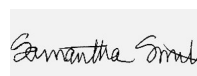
Test ID: T000204176

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	95 - 1908	ND	
Butanes (Isobutane, n-Butane)	195 - 3897	ND	
Methanol	61 - 1230	ND	
Pentane	99 - 1974	ND	
Ethanol	99 - 1974	ND	
Acetone	97 - 1937	ND	
Isopropyl Alcohol	101 - 2013	ND	
Hexane	6 - 120	ND	
Ethyl Acetate	99 - 1981	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	95 - 1899	ND	
Toluene	18 - 355	ND	
Xylenes (m,p,o-Xylenes)	127 - 2545	ND	

Final Approval
Hannah Wright
22Apr2022
12:47:00 PM MDT

PREPARED BY / DATE


Sam Smith
22Apr2022
12:52:00 PM MDT

APPROVED BY / DATE

APPROVEDJustin Thomson 04/27/2022
NPD & Quality Manager

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PET RELIEF8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120**Organic Hemp Oil 100mg**


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Pesticides


Test ID: T000204173

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	301 - 2759	ND	Malathion	281 - 2741	ND
Acephate	48 - 2710	ND	Metalaxyl	42 - 2743	ND
Acetamiprid	42 - 2725	ND	Methiocarb	46 - 2771	ND
Azoxystrobin	45 - 2725	ND	Methomyl	44 - 2742	ND
Bifenazate	47 - 2746	ND	MGK 264 1	162 - 1587	ND
Boscalid	54 - 2762	ND	MGK 264 2	109 - 1103	ND
Carbaryl	43 - 2719	ND	Myclobutanil	42 - 2765	ND
Carbofuran	41 - 2742	ND	Naled	51 - 2745	ND
Chlorantraniliprole	60 - 2728	ND	Oxamyl	43 - 2708	ND
Chlorpyrifos	52 - 2783	ND	Paclobutrazol	44 - 2743	ND
Clofentezine	275 - 2766	ND	Permethrin	290 - 2737	ND
Diazinon	292 - 2743	ND	Phosmet	41 - 2736	ND
Dichlorvos	264 - 2760	ND	Prophos	302 - 2758	ND
Dimethoate	43 - 2693	ND	Propoxur	43 - 2738	ND
E-Fenpyroximate	291 - 2750	ND	Pyridaben	297 - 2754	ND
Etofenprox	42 - 2722	ND	Spinosad A	35 - 2242	ND
Etoxazole	301 - 2705	ND	Spinosad D	50 - 496	ND
Fenoxycarb	47 - 2765	ND	Spiromesifen	275 - 2751	ND
Fipronil	42 - 2723	ND	Spirotetramat	268 - 2761	ND
Flonicamid	35 - 2706	ND	Spiroxamine 1	20 - 1178	ND
Fludioxonil	282 - 2786	ND	Spiroxamine 2	28 - 1567	ND
Hexythiazox	48 - 2768	ND	Tebuconazole	294 - 2697	ND
Imazalil	279 - 2703	ND	Thiacloprid	44 - 2688	ND
Imidacloprid	42 - 2731	ND	Thiamethoxam	44 - 2719	ND
Kresoxim-methyl	45 - 2782	ND	Trifloxystrobin	45 - 2756	ND

Final Approval

Ryan Weems
22Apr2022
02:18:00 PM MDT
PREPARED BY / DATE



Daniel Weidensaul
22Apr2022
02:27:00 PM MDT
APPROVED BY / DATE

APPROVEDJustin Thomson 04/27/2022
NPD & Quality Manager

Prepared for:
PET RELEAF8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120**Organic Hemp Oil 100mg**


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Heavy Metals

Test ID: T000204175


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.35	ND	
Cadmium	0.04 - 4.30	ND	
Mercury	0.04 - 4.35	ND	
Lead	0.04 - 4.17	ND	

Final Approval

Kayla Phye
25Apr2022
10:21:00 AM MDT

PREPARED BY / DATE



Ryan Weems
25Apr2022
10:24:00 AM MDT


APPROVED BY / DATE

**Microbial
Contaminants**

Test ID: T000204174


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
Salmonella	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

Jackson Osaghae-Nosa
24Apr2022
01:07:00 PM MDT

PREPARED BY / DATE



Eden Thompson-Wright
25Apr2022
09:49:00 AM MDT

APPROVED BY / DATE

APPROVEDJustin Thomson 04/27/2022
NPD & Quality Manager

Prepared for:
PET RELIEF

8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120

Organic Hemp Oil 100mg

Batch ID or Lot Number: 0422T106	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: 22Apr2022	Started: 21Apr2022	Received: 21Apr2022	


Cannabinoids

Test ID: T000204172

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	2.086	4.839	5.450	0.20	# of Servings = 1, Sample Weight=28g
Cannabichromenic Acid (CBCA)	1.908	4.426	ND	ND	
Cannabidiol (CBD)	6.758	12.346	107.350	3.80	
Cannabidiolic Acid (CBDA)	6.932	12.663	ND	ND	
Cannabidivarin (CBDV)	1.598	2.920	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.892	5.282	ND	ND	
Cannabigerol (CBG)	1.184	2.747	5.570	0.20	
Cannabigerolic Acid (CBGA)	4.951	11.485	ND	ND	
Cannabinol (CBN)	1.545	3.584	ND	ND	
Cannabinolic Acid (CBNA)	3.378	7.836	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	5.898	13.683	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	5.357	12.426	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	4.746	11.010	ND	ND	
Tetrahydrocannabivarin (THCV)	1.077	2.499	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	4.186	9.711	ND	ND	
Total Cannabinoids			118.370	4.23	
Total Potential THC			ND	ND	
Total Potential CBD			107.350	3.83	

Final Approval

 Daniel Weidensaul
25Apr2022
03:09:00 PM MDT

PREPARED BY / DATE

 Hannah Wright
25Apr2022
03:12:00 PM MDT

APPROVED BY / DATE

APPROVED

Justin Thomson 04/27/2022
NPD & Quality Manager



<https://results.botanacor.com/api/v1/coas/uuid/6ec815e0-e9fe-491b-a00a-0349e61ab1bd>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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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