SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
PET RELEAF
8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120

Organic Hemp Oil 100mg

Batch ID or Lot Number:	Test:	Reported:	USDA License:
0423T111	**Potency**	**18Apr2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000241413	17Apr2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	14Apr2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	2.133	5.300	<LOQ	<LOQ	# of Servings = 1, Sample Weight=28g
Cannabichromenic Acid (CBCA)	1.951	4.847	ND	ND	
Cannabidiol (CBD)	5.446	13.359	113.780	4.10	
Cannabidiolic Acid (CBDA)	5.585	13.702	ND	ND	
Cannabidivarin (CBDV)	1.288	3.160	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.330	5.716	ND	ND	
Cannabigerol (CBG)	1.211	3.009	3.120	0.10	
Cannabigerolic Acid (CBGA)	5.062	12.579	ND	ND	
Cannabinol (CBN)	1.580	3.926	ND	ND	
Cannabinolic Acid (CBNA)	3.454	8.582	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	6.031	14.986	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	5.477	13.610	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	4.853	12.058	ND	ND	
Tetrahydrocannabivarin (THCV)	1.101	2.737	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	4.281	10.636	ND	ND	
Total Cannabinoids			**116.900**	**4.20**	
Total Potential THC			ND	ND	
Total Potential CBD			113.780	4.10	

APPROVED: Richie Bryan QA/QC 4/18/2023

Final Approval

Samantha Smith
Sam Smith
18Apr2023
01:43:00 PM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
18Apr2023
01:45:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/b61b9a93-ce79-4d7b-b05b-ec38818062f0

Definitions
% = % (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)).

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17Apr2023	14Apr2023	14Apr2023	

Microbial Contaminants - Colorado Compliance

Test ID: T000241410
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/25g	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
17Apr2023
03:37:00 PM MDT
PREPARED BY / DATE

Brianne Maillot
17Apr2023
04:04:00 PM MDT
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000241412
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	108 - 2157	ND	
Butanes (Isobutane, n-Butane)	219 - 4374	ND	
Methanol	64 - 1284	ND	
Pentane	109 - 2186	ND	
Ethanol	111 - 2229	ND	
Acetone	107 - 2144	ND	
Isopropyl Alcohol	110 - 2208	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	108 - 2158	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	110 - 2203	ND	
Toluene	19 - 390	ND	
Xylenes (m,p,o-Xylenes)	140 - 2803	ND	

Final Approval

Samantha Smith
Sam Smith
17Apr2023
01:29:00 PM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
17Apr2023
01:28:00 PM MDT
APPROVED BY / DATE

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Heavy Metals - Colorado Compliance

Test ID: T000241411
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.12	ND	
Cadmium	0.04 - 4.20	ND	
Mercury	0.04 - 4.24	ND	
Lead	0.04 - 4.10	ND	

Final Approval

Sam Smith
18Apr2023
02:55:00 PM MDT
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Karen Winternheimer
18Apr2023
03:00:00 PM MDT
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Pesticides

Test ID: T000241409
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	295 - 2726	ND	Malathion	303 - 2721	ND
Acephate	41 - 2825	ND	Metalaxyl	44 - 2746	ND
Acetamiprid	43 - 2738	ND	Methiocarb	46 - 2692	ND
Azoxystrobin	48 - 2711	ND	Methomyl	40 - 2773	ND
Bifenazate	43 - 2711	ND	MGK 264 1	167 - 1686	ND
Boscalid	44 - 2709	ND	MGK 264 2	106 - 1093	ND
Carbaryl	38 - 2746	ND	Myclobutanil	52 - 2693	ND
Carbofuran	42 - 2706	ND	Naled	44 - 2751	ND
Chlorantraniliprole	55 - 2703	ND	Oxamyl	41 - 2766	ND
Chlorpyrifos	54 - 2688	ND	Paclobutrazol	45 - 2721	ND
Clofentezine	264 - 2774	ND	Permethrin	300 - 2662	ND
Diazinon	284 - 2718	ND	Phosmet	37 - 2698	ND
Dichlorvos	306 - 2787	ND	Prophos	292 - 2697	ND
Dimethoate	40 - 2738	ND	Propoxur	43 - 2718	ND
E-Fenpyroximate	290 - 2765	ND	Pyridaben	297 - 2710	ND
Etofenprox	44 - 2719	ND	Spinosad A	32 - 2076	ND
Etoxazole	302 - 2721	ND	Spinosad D	66 - 666	ND
Fenoxycarb	46 - 2745	ND	Spiromesifen	290 - 2737	ND
Fipronil	64 - 2735	ND	Spirotetramat	268 - 2737	ND
Flonicamid	47 - 2809	ND	Spiroxamine 1	20 - 1191	ND
Fludioxonil	306 - 2723	ND	Spiroxamine 2	26 - 1510	ND
Hexythiazox	43 - 2682	ND	Tebuconazole	286 - 2739	ND
Imazalil	276 - 2754	ND	Thiacloprid	41 - 2724	ND
Imidacloprid	40 - 2803	ND	Thiamethoxam	42 - 2764	ND
Kresoxim-methyl	21 - 2722	ND	Trifloxystrobin	43 - 2704	ND

Final Approval

Samantha Smith
Sam Smith
19Apr2023
06:08:00 PM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
19Apr2023
06:11:00 PM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/fe70a832-2a9a-4a26-8035-9cfd25cb5470

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.

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