SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
NULEAF NATURALS
1550 LARIMER ST. #964
DENVER, CO USA 80202

CBD Gummy (Strawberry)

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220126	**Potency**	**30Aug2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000219617	29Aug2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	26Aug2022	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.361	1.010	0.770	0.20	# of Servings = 1, Sample Weight=4.429g
Cannabichromenic Acid (CBCA)	0.330	0.923	ND	ND	
Cannabidiol (CBD)	0.829	2.483	20.580	4.60	
Cannabidiolic Acid (CBDA)	0.850	2.546	ND	ND	
Cannabidivarin (CBDV)	0.196	0.587	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.355	1.062	ND	ND	
Cannabigerol (CBG)	0.205	0.573	ND	ND	
Cannabigerolic Acid (CBGA)	0.856	2.396	ND	ND	
Cannabinol (CBN)	0.267	0.748	ND	ND	
Cannabinolic Acid (CBNA)	0.584	1.635	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.020	2.855	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.926	2.593	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.821	2.297	ND	ND	
Tetrahydrocannabivarin (THCV)	0.186	0.521	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.724	2.026	ND	ND	
Total Cannabinoids			**21.350**	**4.82**	
Total Potential THC			ND	ND	
Total Potential CBD			20.580	4.65	

Final Approval

Daniel Weidensaul
30Aug2022
03:12:00 PM MDT
PREPARED BY / DATE

Jacob Miller
30Aug2022
03:14:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/2b89804e-880a-48fd-8413-9d773e455e7f

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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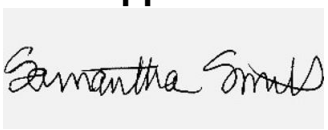
Batch ID or Lot Number:	Test:	Reported:	USDA License:
220126	**Heavy Metals**	**31Aug2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000219621	30Aug2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	26Aug2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.54	ND	
Cadmium	0.05 - 4.58	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.05 - 4.57	ND	

Final Approval



Sam Smith
31Aug2022
02:01:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul
31Aug2022
02:17:00 PM MDT

APPROVED BY / DATE

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Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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1550 LARIMER ST. #964
DENVER, CO USA 80202

CBD Gummy (Strawberry)

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220126	**Microbial Contaminants**	**14Sep2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000219620	26Aug2022	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 26Aug2022	Status: NA

Microbial Contaminants

	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
29Aug2022
01:59:00 PM MDT
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Sarah Henning
29Aug2022
03:20:00 PM MDT
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https://results.botanacor.com/api/v1/coas/uuid/0b73d034-2beb-4c8d-8596-6a8894bec0c7

Definitions
* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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CBD Gummy (Strawberry)

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220126	**Pesticides**	**01Sep2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219619	31Aug2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	26Aug2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	336 - 2764	ND
Acephate	38 - 2825	ND
Acetamiprid	40 - 2748	ND
Azoxystrobin	44 - 2772	ND
Bifenazate	39 - 2738	ND
Boscalid	41 - 2797	ND
Carbaryl	40 - 2768	ND
Carbofuran	40 - 2730	ND
Chlorantraniliprole	40 - 2745	ND
Chlorpyrifos	39 - 2718	ND
Clofentezine	270 - 2766	ND
Diazinon	280 - 2765	ND
Dichlorvos	252 - 2767	ND
Dimethoate	42 - 2738	ND
E-Fenpyroximate	296 - 2734	ND
Etofenprox	42 - 2689	ND
Etoxazole	299 - 2720	ND
Fenoxycarb	41 - 2752	ND
Fipronil	20 - 2847	ND
Flonicamid	50 - 2754	ND
Fludioxonil	273 - 2782	ND
Hexythiazox	42 - 2699	ND
Imazalil	262 - 2789	ND
Imidacloprid	40 - 2747	ND
Kresoxim-methyl	42 - 2813	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	286 - 2727	ND
Metalaxyl	44 - 2773	ND
Methiocarb	43 - 2781	ND
Methomyl	41 - 2781	ND
MGK 264 1	169 - 1643	ND
MGK 264 2	101 - 1157	ND
Myclobutanil	48 - 2791	ND
Naled	48 - 2779	ND
Oxamyl	42 - 2787	ND
Paclobutrazol	42 - 2723	ND
Permethrin	289 - 2741	ND
Phosmet	41 - 2743	ND
Prophos	282 - 2763	ND
Propoxur	42 - 2745	ND
Pyridaben	295 - 2753	ND
Spinosad A	35 - 2247	ND
Spinosad D	48 - 498	ND
Spiromesifen	283 - 2740	ND
Spirotetramat	276 - 2798	ND
Spiroxamine 1	18 - 1189	ND
Spiroxamine 2	24 - 1591	ND
Tebuconazole	288 - 2837	ND
Thiacloprid	42 - 2744	ND
Thiamethoxam	40 - 2776	ND
Trifloxystrobin	44 - 2745	ND

Final Approval

Daniel Weidensaul
01Sep2022
01:40:00 PM MDT
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Karen Winternheimer
01Sep2022
01:46:00 PM MDT
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https://results.botanacor.com/api/v1/coas/uuid/23ae9701-8a74-41c3-a743-4f68de0225d0

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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CBD Gummy (Strawberry)

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220126	**Residual Solvents**	**29Aug2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219622	29Aug2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	26Aug2022	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	75 - 1506	ND	
Butanes (Isobutane, n-Butane)	160 - 3195	ND	
Methanol	51 - 1010	ND	
Pentane	83 - 1669	ND	
Ethanol	79 - 1578	>1578	
Acetone	83 - 1652	ND	
Isopropyl Alcohol	84 - 1690	ND	
Hexane	5 - 102	ND	
Ethyl Acetate	84 - 1684	ND	
Benzene	0.2 - 3.3	ND	
Heptanes	85 - 1700	ND	
Toluene	15 - 299	ND	
Xylenes (m,p,o-Xylenes)	110 - 2208	ND	

Final Approval

Daniel Weidensaul
30Aug2022
06:19:00 PM MDT
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Jacob Miller
30Aug2022
06:20:00 PM MDT
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https://results.botanacor.com/api/v1/coas/uuid/6d880af1-dcde-4236-97c6-803bc1e500a6

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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