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Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C348	**Potency**	**08Dec2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000264033	06Dec2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	05Dec2023	N/A

Cannabinoids

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.518	1.764	64.840	70.50	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.473	1.613	ND	ND	
Cannabidiol (CBD)	1.518	4.551	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	1.557	4.668	ND	ND	
Cannabidivarin (CBDV)	0.359	1.076	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.650	1.947	ND	ND	
Cannabigerol (CBG)	0.294	1.001	2.020	2.20	
Cannabigerolic Acid (CBGA)	1.228	4.186	ND	ND	
Cannabinol (CBN)	0.383	1.306	2.060	2.20	
Cannabinolic Acid (CBNA)	0.838	2.856	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.463	4.987	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.329	4.529	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.178	4.013	ND	ND	
Tetrahydrocannabivarin (THCV)	0.267	0.911	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	1.039	3.539	ND	ND	
Total Cannabinoids			**68.920**	**74.90**	
Total Potential THC			ND	ND	
Total Potential CBD			0.000	0.00	

Final Approval

Karen Winternheimer
08Dec2023
03:02:00 PM MST
PREPARED BY / DATE

Sam Smith
08Dec2023
03:03:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/551898c5-1a67-4168-867b-ba495f9533b0

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:
C348	**Heavy Metals**	**06Dec2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000264036	06Dec2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	05Dec2023	NA

Heavy Metals	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.61	ND	
Cadmium	0.05 - 4.52	ND	
Mercury	0.05 - 4.50	ND	
Lead	0.05 - 4.79	ND	

Final Approval

Samantha Smith

Sam Smith
06Dec2023
02:47:00 PM MST

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
06Dec2023
02:52:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e73191e5-e6fa-4e08-b8b7-a58317c9b3e7

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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NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C348	**Microbial Contaminants**	**08Dec2023**	NA
Matrix: Finished Product	Test ID: T000264035	Started: 05Dec2023	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 05Dec2023	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

Brianne Maillot
08Dec2023
09:45:00 AM MST
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Eden Thompson-Wright
08Dec2023
10:31:00 AM MST
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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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NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C348	**Pesticides**	**08Dec2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000264034	07Dec2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	05Dec2023	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	329 - 2679	ND
Acephate	48 - 2797	ND
Acetamiprid	45 - 2749	ND
Azoxystrobin	44 - 2707	ND
Bifenazate	47 - 2673	ND
Boscalid	47 - 2696	ND
Carbaryl	44 - 2731	ND
Carbofuran	43 - 2710	ND
Chlorantraniliprole	48 - 2723	ND
Chlorpyrifos	21 - 2701	ND
Clofentezine	256 - 2706	ND
Diazinon	272 - 2700	ND
Dichlorvos	288 - 2784	ND
Dimethoate	46 - 2763	ND
E-Fenpyroximate	290 - 2716	ND
Etofenprox	41 - 2674	ND
Etoxazole	292 - 2599	ND
Fenoxycarb	21 - 2706	ND
Fipronil	48 - 2760	ND
Flonicamid	49 - 2803	ND
Fludioxonil	316 - 2666	ND
Hexythiazox	46 - 2661	ND
Imazalil	265 - 2718	ND
Imidacloprid	48 - 2888	ND
Kresoxim-methyl	46 - 2702	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	279 - 2664	ND
Metalaxyl	47 - 2702	ND
Methiocarb	49 - 2697	ND
Methomyl	45 - 2816	ND
MGK 264 1	160 - 1609	ND
MGK 264 2	106 - 1064	ND
Myclobutanil	18 - 2637	ND
Naled	41 - 2708	ND
Oxamyl	47 - 2800	ND
Paclobutrazol	43 - 2733	ND
Permethrin	293 - 2660	ND
Phosmet	41 - 2545	ND
Prophos	304 - 2654	ND
Propoxur	42 - 2715	ND
Pyridaben	282 - 2693	ND
Spinosad A	29 - 2107	ND
Spinosad D	61 - 656	ND
Spiromesifen	268 - 2623	ND
Spirotetramat	283 - 2740	ND
Spiroxamine 1	16 - 1001	ND
Spiroxamine 2	28 - 1579	ND
Tebuconazole	293 - 2678	ND
Thiacloprid	46 - 2782	ND
Thiamethoxam	45 - 2802	ND
Trifloxystrobin	42 - 2738	ND

Final Approval

Karen Winternheimer
08Dec2023
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Sam Smith
08Dec2023
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https://results.botanacor.com/api/v1/coas/uuid/51088bf5-e32d-4f98-9b4b-05a8cb283edb

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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
C348	**Residual Solvents**	**08Dec2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000264037	08Dec2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	05Dec2023	Active

Residual Solvents	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Propane	109 - 2184	ND	
Butanes (Isobutane, n-Butane)	206 - 4123	ND	
Methanol	61 - 1230	ND	
Pentane	105 - 2092	ND	
Ethanol	99 - 1975	ND	
Acetone	100 - 1995	ND	
Isopropyl Alcohol	100 - 2009	ND	
Hexane	6 - 127	ND	
Ethyl Acetate	101 - 2021	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	102 - 2037	ND	
Toluene	17 - 347	ND	
Xylenes (m,p,o-Xylenes)	121 - 2418	ND	

Final Approval

Karen Winternheimer
08Dec2023
01:56:00 PM MST
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Sam Smith
08Dec2023
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https://results.botanacor.com/api/v1/coas/uuid/9155d059-0e03-4be6-b38b-a625b107758e

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