

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

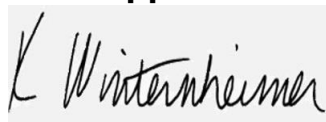
NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number: C415	Test: Potency	Reported: 17Apr2024	USDA License: N/A
Matrix: Solution	Test ID: T000277515	Started: 15Apr2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 12Apr2024	Status: N/A

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.214	0.582	58.880	64.00	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.196	0.533	ND	ND	
Cannabidiol (CBD)	0.487	1.584	1.960	2.10	
Cannabidiolic Acid (CBDA)	0.499	1.624	ND	ND	
Cannabidivarin (CBDV)	0.115	0.375	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.208	0.678	ND	ND	
Cannabigerol (CBG)	0.122	0.331	1.910	2.10	
Cannabigerolic Acid (CBGA)	0.509	1.382	ND	ND	
Cannabinol (CBN)	0.159	0.431	2.040	2.20	
Cannabinolic Acid (CBNA)	0.347	0.943	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.606	1.647	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.551	1.496	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.488	1.325	ND	ND	
Tetrahydrocannabivarin (THCV)	0.111	0.301	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.430	1.169	ND	ND	
Total Cannabinoids			64.790	70.40	
Total Potential THC			0.000	0.00	
Total Potential CBD			1.960	2.10	

Final Approval



Karen Winternheimer

17Apr2024

12:29:00 PM MDT

PREPARED BY / DATE



Phillip Travisano

17Apr2024

12:31:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/019d3d6e-1ccd-41ee-af74-1399d7465774>

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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Cert #4329.02

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Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number: C415	Test: Heavy Metals	Reported: 18Apr2024	USDA License: NA
Matrix: Finished Product	Test ID: T000277518	Started: 18Apr2024	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 12Apr2024	Status: NA

Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.95	ND	
Cadmium	0.05 - 4.70	ND	
Mercury	0.05 - 4.76	ND	
Lead	0.05 - 4.83	ND	

Final Approval



Phillip Travisano
18Apr2024
03:42:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer
18Apr2024
04:22:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/d7e48216-269f-403d-a5d0-e91f5c91b57e>

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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Cert #4329.02

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Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number: C415	Test: Microbial Contaminants	Reported: 18Apr2024	USDA License: NA
Matrix: Finished Product	Test ID: T000277517	Started: 15Apr2024	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 12Apr2024	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
<i>Salmonella</i>	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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	<LLOQ	

Final Approval



Brianne Maillot
18Apr2024
12:42:00 PM MDT



Brett Hudson
18Apr2024
03:03:00 PM MDT



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APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/2da8ee75-30c9-4ef8-ad75-64a0cb711d86>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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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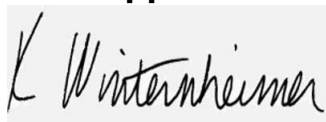
NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number: C415	Test: Mycotoxins	Reported: 19Apr2024	USDA License: N/A
Matrix: Concentrate	Test ID: T000277520	Started: 17Apr2024	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 12Apr2024	Status: Active

Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.23 - 130.99	ND	N/A
Aflatoxin B1	1.05 - 32.56	ND	
Aflatoxin B2	1.02 - 32.85	ND	
Aflatoxin G1	1.02 - 33.01	ND	
Aflatoxin G2	0.99 - 33.20	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Karen Winternheimer
19Apr2024
09:21:00 AM MDT

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Phillip Travisano
19Apr2024
09:22:00 AM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/57e0ff59-1885-456a-b9e5-c04509709bf4>

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

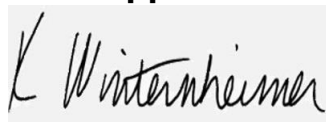
Batch ID or Lot Number: C415	Test: Pesticides	Reported: 17Apr2024	USDA License: NA
Matrix: Concentrate	Test ID: T000277516	Started: 13Apr2024	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 12Apr2024	Status: NA

Pesticides

	Dynamic Range (ppb)	Result (ppb)
Abamectin	331 - 2717	ND
Acephate	43 - 2748	ND
Acetamiprid	38 - 2715	ND
Azoxystrobin	46 - 2786	ND
Bifenazate	40 - 2781	ND
Boscalid	46 - 2784	ND
Carbaryl	38 - 2690	ND
Carbofuran	41 - 2691	ND
Chlorantraniliprole	47 - 2782	ND
Chlorpyrifos	53 - 2669	ND
Clofentezine	288 - 2722	ND
Diazinon	290 - 2777	ND
Dichlorvos	270 - 2736	ND
Dimethoate	39 - 2708	ND
E-Fenpyroximate	298 - 2760	ND
Etofenprox	42 - 2715	ND
Etoxazole	302 - 2657	ND
Fenoxycarb	39 - 2773	ND
Fipronil	40 - 2735	ND
Flonicamid	45 - 2735	ND
Fludioxonil	278 - 2757	ND
Hexythiazox	38 - 2756	ND
Imazalil	266 - 2815	ND
Imidacloprid	37 - 2768	ND
Kresoxim-methyl	42 - 2791	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	280 - 2768	ND
Metalaxyl	40 - 2783	ND
Methiocarb	40 - 2784	ND
Methomyl	40 - 2746	ND
MGK 264 1	164 - 1619	ND
MGK 264 2	106 - 1080	ND
Myclobutanil	35 - 2730	ND
Naled	48 - 2653	ND
Oxamyl	40 - 2770	ND
Paclobutrazol	43 - 2666	ND
Permethrin	292 - 2753	ND
Phosmet	41 - 2632	ND
Prophos	299 - 2777	ND
Propoxur	42 - 2704	ND
Pyridaben	314 - 2775	ND
Spinosad A	32 - 2090	ND
Spinosad D	68 - 670	ND
Spiromesifen	287 - 2722	ND
Spirotetramat	295 - 2839	ND
Spiroxamine 1	14 - 1067	ND
Spiroxamine 2	23 - 1614	ND
Tebuconazole	300 - 2775	ND
Thiacloprid	41 - 2721	ND
Thiamethoxam	40 - 2764	ND
Trifloxystrobin	42 - 2704	ND

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Karen Winternheimer
17Apr2024
10:29:00 AM MDT

PREPARED BY / DATE



Phillip Travisano
17Apr2024
10:31:00 AM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/7b2fdbf1-8fd0-4b7d-8dbd-6dcde2ec7582>

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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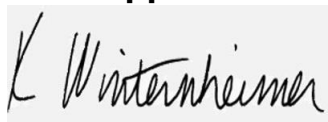
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DENVER, CO USA 80202

NuLeaf Naturals CBC Oil Tincture Formulation

Batch ID or Lot Number: C415	Test: Residual Solvents	Reported: 17Apr2024	USDA License: N/A
Matrix: Concentrate	Test ID: T000277519	Started: 15Apr2024	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 12Apr2024	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1859	ND	
Butanes (Isobutane, n-Butane)	170 - 3391	ND	
Methanol	65 - 1308	ND	
Pentane	98 - 1958	ND	
Ethanol	98 - 1967	ND	
Acetone	108 - 2158	ND	
Isopropyl Alcohol	105 - 2099	ND	
Hexane	7 - 137	ND	
Ethyl Acetate	110 - 2192	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	105 - 2105	ND	
Toluene	18 - 368	ND	
Xylenes (m,p,o-Xylenes)	124 - 2472	ND	

Final Approval



Karen Winternheimer
16Apr2024
08:46:00 AM MDT

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Phillip Travisano
16Apr2024
08:48:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/eb2434ac-b3af-420b-8d19-f7de3d8b63c7>

Definitions

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