

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964 DENVER, CO USA 80202

NuLeaf Naturals CBN Oil Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
N320	Potency	19May2023	N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Solution	T000244314	18May2023	N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 17May2023	Status: N/A	

- 11 11			Result		Notes
Cannabinoids	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	
Cannabichromene (CBC)	0.664	2.150	<loq< td=""><td><loq< td=""><td>Density = 0.92g/mL</td></loq<></td></loq<>	<loq< td=""><td>Density = 0.92g/mL</td></loq<>	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.607	1.967	ND	ND	
Cannabidiol (CBD)	1.838	5.475	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidiolic Acid (CBDA)	1.885	5.615	ND	ND	
Cannabidivarin (CBDV)	0.435	1.295	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.786	2.342	ND	ND	
Cannabigerol (CBG)	0.377	1.221	1.840	2.00	
Cannabigerolic Acid (CBGA)	1.575	5.104	ND	ND	
Cannabinol (CBN)	0.492	1.593	59.000	64.10	
Cannabinolic Acid (CBNA)	1.075	3.482	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.877	6.080	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.704	5.522	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.510	4.892	ND	ND	
Tetrahydrocannabivarin (THCV)	0.343	1.110	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	1.332	4.315	ND	ND	
Total Cannabinoids			60.840	66.10	
Total Potential THC			ND	ND	
Total Potential CBD			0.000	0.00	

Final Approval

L Withhelmer PREPARED BY / DATE Karen Winternheimer 19May2023 12:08:00 PM MDT

Samantha Smoth

Sam Smith 19May2023 12:10:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/0bb0f266-dd3a-4949-95be-cda44e12b11c

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)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







Cert #4329.02 0bb0f266dd3a494995becda44e12b11c.1



Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964 DENVER, CO USA 80202

NuLeaf Naturals CBN Oil Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
N320	Heavy Metals	22May2023	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000244317	19May2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	17May2023	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.05 - 4.53	ND		
Cadmium	0.04 - 4.47	ND		
Mercury	0.05 - 4.60	ND		
Lead	0.04 - 4.50	ND		

Final Approval

PREPARED BY / DATE

Sam Smith 22May2023 07:47:00 AM MDT

Karen Winternheimer 22May2023 07:49:00 AM MDT



APPROVED BY / DATE

Definitions

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

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







06a02774d4e64c3191c410f91e0b9352.1



Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964 DENVER, CO USA 80202

NuLeaf Naturals CBN Oil Tincture

Batch ID or Lot Number: N320	Test: Microbial Contaminants	Reported: 22May2023	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000244316	17May2023	NA
	Method(s):	Received:	Status:
	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	17May2023	NA

Microbial			Quantitation		
Contaminants	Method	LOD	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	— Torcigir matter
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

PREPARED BY / DATE

Peret Tehn

Brett Hudson 20May2023 11:13:00 AM MDT

Eden Thompson

Eden Thompson-Wright 22May2023 10:55:00 AM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6935446a-11f7-49e2-9ed6-3fe783b51780

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

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







Cert #4329.02 6935446a11f749e29ed63fe783b51780.1



Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964 DENVER, CO USA 80202

NuLeaf Naturals CBN Oil Tincture

Batch ID or Lot Number: N320	Test: Pesticides	Reported: 25May2023	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000244315	23May2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	17May2023	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	272 - 2715	ND
Acephate	44 - 2775	ND
Acetamiprid	44 - 2747	ND
Azoxystrobin	45 - 2714	ND
Bifenazate	39 - 2690	ND
Boscalid	31 - 2648	ND
Carbaryl	43 - 2748	ND
Carbofuran	41 - 2718	ND
Chlorantraniliprole	44 - 2660	ND
Chlorpyrifos	40 - 2733	ND
Clofentezine	291 - 2714	ND
Diazinon	281 - 2707	ND
Dichlorvos	272 - 2769	ND
Dimethoate	43 - 2729	ND
E-Fenpyroximate	270 - 2726	ND
Etofenprox	41 - 2666	ND
Etoxazole	292 - 2672	ND
Fenoxycarb	14 - 2725	ND
Fipronil	28 - 2650	ND
Flonicamid	54 - 2811	ND
Fludioxonil	278 - 2651	ND
Hexythiazox	43 - 2705	ND
Imazalil	276 - 2741	ND
Imidacloprid	50 - 2785	ND
Kresoxim-methyl	45 - 2723	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	288 - 2719	ND
Metalaxyl	39 - 2714	ND
Methiocarb	46 - 2692	ND
Methomyl	45 - 2768	ND
MGK 264 1	167 - 1674	ND
MGK 264 2	101 - 1063	ND
Myclobutanil	47 - 2722	ND
Naled	52 - 2771	ND
Oxamyl	46 - 2772	ND
Paclobutrazol	44 - 2722	ND
Permethrin	260 - 2692	ND
Phosmet	42 - 2726	ND
Prophos	304 - 2666	ND
Propoxur	43 - 2740	ND
Pyridaben	294 - 2663	ND
Spinosad A	33 - 2083	ND
Spinosad D	64 - 658	ND
Spiromesifen	258 - 2708	ND
Spirotetramat	265 - 2777	ND
Spiroxamine 1	20 - 1162	ND
Spiroxamine 2	25 - 1480	ND
Tebuconazole	286 - 2782	ND
Thiacloprid	42 - 2728	ND
Thiamethoxam	46 - 2775	ND
Trifloxystrobin	42 - 2708	ND

Final Approval

PREPARED BY / DATE

Alex Benson 25May2023 12:41:00 PM MDT

APPROVED BY / DATE

Phillip Travisano 25May2023 02:50:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/a0e3396a-9824-4aa4-852f-e76485433964

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

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







Cert #4329.02 a0e3396a98244aa4852fe76485433964.1



Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964 DENVER, CO USA 80202

NuLeaf Naturals CBN Oil Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
N320	Residual Solvents	19May2023	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000244318	18May2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	17May2023	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2095	ND	
Butanes (Isobutane, n-Butane)	215 - 4296	ND	
Methanol	64 - 1276	ND	
Pentane	107 - 2141	ND	
Ethanol	103 - 2054	ND	
Acetone	104 - 2084	ND	
Isopropyl Alcohol	104 - 2079	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	102 - 2047	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	104 - 2078	ND	
Toluene	18 - 362	ND	
Xylenes (m,p,o-Xylenes)	126 - 2522	ND	

Final Approval

PREPARED BY / DATE

Sam Smith 19May2023 11:55:00 AM MDT APPROVED BY / DATE

Karen Winternheimer 19May2023 11:57:00 AM MDT



https://results.botanacor.com/api/v1/coas/uuid/c67aedaa-1af2-4377-8ca0-93e24052a088

Definitions

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

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







Cert #4329.02 c67aedaa1af243778ca093e24052a088.1