

CERTIFICATE OF ANALYSIS

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

NuLeaf Naturals CBD Skin Cream

Batch ID or Lot Number: 685FDB	Test: Potency	Reported: 21Jun2024	USDA License: N/A
Matrix: Concentrate	Test ID: T000284569	Started: 20Jun2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 18Jun2024	Status: Active

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.005	0.020	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.005	0.018	ND	ND	
Cannabidiol (CBD)	0.019	0.051	2.085	20.85	
Cannabidiolic Acid (CBDA)	0.019	0.052	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	0.012	0.12	
Cannabidivarinic Acid (CBDVA)	0.008	0.022	ND	ND	
Cannabigerol (CBG)	0.003	0.011	0.058	0.58	
Cannabigerolic Acid (CBGA)	0.012	0.047	ND	ND	
Cannabinol (CBN)	0.004	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.008	0.032	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.014	0.056	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.013	0.051	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.012	0.045	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.010	0.040	ND	ND	
Total Cannabinoids			2.155	21.55	
Total Potential THC			<LOQ	<LOQ	
Total Potential CBD			2.085	20.85	

Final Approval



Sam Smith
21Jun2024
09:26:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
21Jun2024
09:28:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/d83daa40-bc92-424b-9c5a-c82bbd3c5fc8>

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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CERTIFICATE OF ANALYSIS

Prepared for:

NULEAF NATURALS

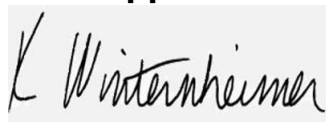
1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBD Skin Cream

Batch ID or Lot Number: 685FDB	Test: Heavy Metals	Reported: 20Jun2024	USDA License: NA
Matrix: Finished Product	Test ID: T000284572	Started: 20Jun2024	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 18Jun2024	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.42	ND	
Cadmium	0.05 - 4.50	ND	
Mercury	0.05 - 4.65	ND	
Lead	0.05 - 4.68	ND	

Final Approval



Karen Winternheimer
20Jun2024
01:46:00 PM MDT

PREPARED BY / DATE



Sam Smith
20Jun2024
01:56:00 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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Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

NuLeaf Naturals CBD Skin Cream

Batch ID or Lot Number: 685FDB	Test: Microbial Contaminants	Reported: 24Jun2024	USDA License: N/A
Matrix: Finished Product	Test ID: T000284571	Started: 20Jun2024	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 18Jun2024	Status: Active

Microbial

Contaminants

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	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brianne Maillot
24Jun2024
03:27:00 PM MDT



Brett Hudson
24Jun2024
05:21:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/88457a6f-86d9-4666-b71c-16ac39e41a18>

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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Prepared for:
NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBD Skin Cream

Batch ID or Lot Number: 685FDB	Test: Pesticides	Reported: 27Jun2024	USDA License: NA
Matrix: Finished Product	Test ID: T000284570	Started: 26Jun2024	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 18Jun2024	Status: NA

Pesticides

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	492 - 2782	ND	Malathion	289 - 2740	ND
Acephate	39 - 2737	ND	Metalaxyl	43 - 2742	ND
Acetamiprid	39 - 2709	ND	Methiocarb	41 - 2732	ND
Azoxystrobin	45 - 2727	ND	Methomyl	42 - 2761	ND
Bifenazate	45 - 2708	ND	MGK 264 1	65 - 1532	ND
Boscalid	39 - 2717	ND	MGK 264 2	97 - 1089	ND
Carbaryl	38 - 2731	ND	Myclobutanil	40 - 2704	ND
Carbofuran	42 - 2702	ND	Naled	43 - 2682	ND
Chlorantraniliprole	38 - 2717	ND	Oxamyl	42 - 2764	ND
Chlorpyrifos	25 - 2744	ND	Paclobutrazol	41 - 2702	ND
Clofentezine	278 - 2710	ND	Permethrin	263 - 2746	ND
Diazinon	278 - 2746	ND	Phosmet	43 - 2608	ND
Dichlorvos	264 - 2725	ND	Prophos	277 - 2740	ND
Dimethoate	41 - 2726	ND	Propoxur	42 - 2701	ND
E-Fenpyroximate	260 - 2843	ND	Pyridaben	265 - 2838	ND
Etofenprox	36 - 2769	ND	Spinosad A	30 - 2070	ND
Etoxazole	254 - 2755	ND	Spinosad D	58 - 687	ND
Fenoxycarb	42 - 2737	ND	Spiromesifen	246 - 2837	ND
Fipronil	37 - 2764	ND	Spirotetramat	294 - 2758	ND
Flonicamid	45 - 2733	ND	Spiroxamine 1	15 - 1020	ND
Fludioxonil	268 - 2689	ND	Spiroxamine 2	24 - 1610	ND
Hexythiazox	34 - 2828	ND	Tebuconazole	303 - 2724	ND
Imazalil	284 - 2776	ND	Thiacloprid	43 - 2760	ND
Imidacloprid	43 - 2744	ND	Thiamethoxam	37 - 2739	ND
Kresoxim-methyl	46 - 2757	ND	Trifloxystrobin	42 - 2725	ND

Final Approval


Sam Smith
27Jun2024
09:09:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
27Jun2024
09:11:00 AM MDT
APPROVED BY / DATE

Karen Winternheimer
27Jun2024
09:11:00 AM MDT



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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
ppb = Parts Per Billion

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NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

NuLeaf Naturals CBD Skin Cream

Batch ID or Lot Number: 685FDB	Test: Residual Solvents	Reported: 24Jun2024	USDA License: N/A
Matrix: Topical	Test ID: T000284573	Started: 20Jun2024	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 18Jun2024	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	74 - 1483	ND	
Butanes (Isobutane, n-Butane)	147 - 2943	ND	
Methanol	52 - 1040	ND	
Pentane	75 - 1503	ND	
Ethanol	80 - 1596	ND	
Acetone	85 - 1699	ND	
Isopropyl Alcohol	90 - 1798	ND	
Hexane	5 - 106	ND	
Ethyl Acetate	87 - 1743	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	81 - 1629	ND	
Toluene	16 - 316	ND	
Xylenes (m,p,o-Xylenes)	113 - 2251	ND	

Final Approval



Sam Smith
20Jun2024
01:31:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer
20Jun2024
01:36:00 PM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/78a56569-532e-4b6c-a2cf-92b164f6dfea>

Definitions

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CERTIFICATE OF ANALYSIS

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

NuLeaf Naturals CBD Skin Cream

Batch ID or Lot Number: 685FDB	Test: Mycotoxins	Reported: 20Jun2024	USDA License: N/A
Matrix: Finished Product	Test ID: T000284574	Started: 19Jun2024	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 18Jun2024	Status: Active

Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.13 - 124.31	ND	N/A
Aflatoxin B1	0.91 - 31.35	ND	
Aflatoxin B2	1.01 - 31.02	ND	
Aflatoxin G1	0.94 - 31.08	ND	
Aflatoxin G2	1.10 - 31.38	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
20Jun2024
09:39:00 AM MDT

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Karen Winternheimer
20Jun2024
09:41:00 AM MDT

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Definitions

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