

CERTIFICATE OF ANALYSIS

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

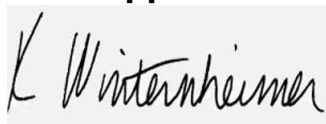
NuLeaf Naturals CBD Balm

Batch ID or Lot Number: C75A47-1, C75A47-2	Test: Potency	Reported: 21May2024	USDA License: N/A
Matrix: Concentrate	Test ID: T000281360	Started: 20May2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 16May2024	Status: Active

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.021	0.041	0.41	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabidiol (CBD)	0.021	0.058	2.143	21.43	
Cannabidiolic Acid (CBDA)	0.021	0.059	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	0.028	0.28	
Cannabidivarinic Acid (CBDVA)	0.009	0.025	ND	ND	
Cannabigerol (CBG)	0.003	0.012	0.065	0.65	
Cannabigerolic Acid (CBGA)	0.014	0.051	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.017	0.061	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.055	0.079	0.79	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.049	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.043	ND	ND	
Total Cannabinoids			2.356	23.56	
Total Potential THC			0.079	0.79	
Total Potential CBD			2.143	21.43	

Final Approval



Karen Winternheimer

21May2024

03:26:00 PM MDT

PREPARED BY / DATE



Sam Smith

21May2024

03:28:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/df436999-5b14-43f7-86e9-15c970e53ede>

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



CDPHE Certified

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NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

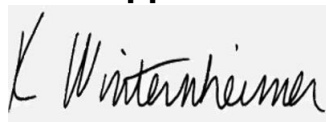
NuLeaf Naturals CBD Balm

Batch ID or Lot Number: C75A47-1, C75A47-2	Test: Heavy Metals	Reported: 23May2024	USDA License: NA
Matrix: Finished Product	Test ID: T000281363	Started: 22May2024	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 16May2024	Status: NA

Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 5.00	ND	
Cadmium	0.05 - 4.75	ND	
Mercury	0.05 - 4.64	ND	
Lead	0.05 - 4.70	ND	

Final Approval

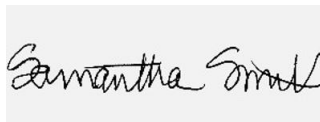


Karen Winternheimer

23May2024

09:21:00 AM MDT

PREPARED BY / DATE



Sam Smith

23May2024

09:24:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/4cd4759e-da7f-4634-987e-b01ecd288e38>

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

1550 LARIMER ST. #964

DENVER, CO USA 80202

NuLeaf Naturals CBD Balm

Batch ID or Lot Number: C75A47-1, C75A47-2	Test: Microbial Contaminants	Reported: 21May2024	USDA License: N/A
Matrix: Finished Product	Test ID: T000281362	Started: 17May2024	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 16May2024	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



Brett Hudson
20May2024
03:09:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
21May2024
09:00:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b5147717-928c-4d90-8b37-6cddc85455f6>

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

1550 LARIMER ST. #964
DENVER, CO USA 80202

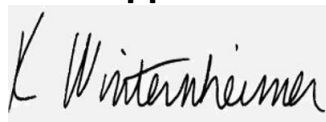
NuLeaf Naturals CBD Balm

Batch ID or Lot Number: C75A47-1, C75A47-2	Test: Pesticides	Reported: 22May2024	USDA License: NA
Matrix: Finished Product	Test ID: T000281361	Started: 21May2024	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 16May2024	Status: NA

Pesticides

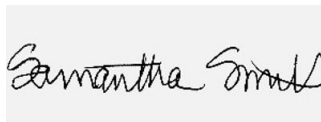
Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	338 - 2698	ND	Malathion	289 - 2716	ND
Acephate	41 - 2703	ND	Metalaxyl	46 - 2704	ND
Acetamiprid	42 - 2650	ND	Methiocarb	46 - 2653	ND
Azoxystrobin	48 - 2686	ND	Methomyl	43 - 2732	ND
Bifenazate	43 - 2691	ND	MGK 264 1	152 - 1620	ND
Boscalid	37 - 2631	ND	MGK 264 2	112 - 1088	ND
Carbaryl	41 - 2702	ND	Myclobutanil	33 - 2636	ND
Carbofuran	42 - 2685	ND	Naled	46 - 2663	ND
Chlorantraniliprole	51 - 2624	ND	Oxamyl	42 - 2696	ND
Chlorpyrifos	38 - 2642	ND	Paclobutrazol	46 - 2699	ND
Clofentezine	282 - 2708	ND	Permethrin	266 - 2697	ND
Diazinon	292 - 2712	ND	Phosmet	42 - 2564	ND
Dichlorvos	275 - 2695	ND	Prophos	297 - 2678	ND
Dimethoate	44 - 2640	ND	Propoxur	45 - 2700	ND
E-Fenpyroximate	275 - 2703	ND	Pyridaben	300 - 2738	ND
Etofenprox	44 - 2701	ND	Spinosad A	34 - 2058	ND
Etoxazole	300 - 2603	ND	Spinosad D	76 - 648	ND
Fenoxycarb	38 - 2719	ND	Spiromesifen	285 - 2684	ND
Fipronil	86 - 2689	ND	Spirotetramat	300 - 2760	ND
Flonicamid	52 - 2722	ND	Spiroxamine 1	18 - 985	ND
Fludioxonil	297 - 2643	ND	Spiroxamine 2	22 - 1565	ND
Hexythiazox	43 - 2723	ND	Tebuconazole	291 - 2709	ND
Imazalil	283 - 2766	ND	Thiacloprid	45 - 2679	ND
Imidacloprid	43 - 2690	ND	Thiamethoxam	43 - 2687	ND
Kresoxim-methyl	49 - 2716	ND	Trifloxystrobin	44 - 2717	ND

Final Approval



Karen Winternheimer
22May2024
08:31:00 AM MDT

PREPARED BY / DATE



Sam Smith
22May2024
08:33:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/9347c507-71ce-489a-bc99-12f89c44589e>

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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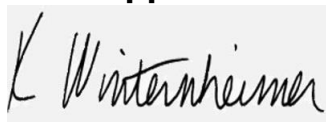
DENVER, CO USA 80202

NuLeaf Naturals CBD Balm

Batch ID or Lot Number: C75A47-1, C75A47-2	Test: Residual Solvents	Reported: 23May2024	USDA License: N/A
Matrix: Topical	Test ID: T000281364	Started: 22May2024	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 16May2024	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	75 - 1495	ND	
Butanes (Isobutane, n-Butane)	156 - 3123	ND	
Methanol	64 - 1282	ND	
Pentane	84 - 1677	ND	
Ethanol	97 - 1942	ND	
Acetone	101 - 2016	ND	
Isopropyl Alcohol	111 - 2221	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	104 - 2079	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	95 - 1900	ND	
Toluene	19 - 381	ND	
Xylenes (m,p,o-Xylenes)	137 - 2740	ND	

Final Approval



Karen Winternheimer

23May2024

01:15:00 PM MDT

PREPARED BY / DATE



Sam Smith

23May2024

01:14:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/c3fdce7c-f4e0-402a-8894-50b3b928db92>

Definitions

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