

CERTIFICATE OF ANALYSIS

Prepared for:
Nuleaf Naturals1550 Larimer St #964
Denver, CO USA 80202**D310**

Batch ID or Lot Number: LB-O-60371	Test: Potency	Reported: 15Mar2023	USDA License: N/A
Matrix: Solution	Test ID: T000238658	Started: 15Mar2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 15Mar2023	Status: Active

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.068	0.209	1.955	2.11	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.062	0.192	ND	ND	
Cannabidiol (CBD)	0.197	0.559	62.194	67.16	
Cannabidiolic Acid (CBDA)	0.202	0.574	0.855	0.92	
Cannabidivarin (CBDV)	0.046	0.132	0.339	0.37	
Cannabidivarinic Acid (CBDVA)	0.084	0.239	ND	ND	
Cannabigerol (CBG)	0.039	0.119	ND	ND	
Cannabigerolic Acid (CBGA)	0.161	0.497	ND	ND	
Cannabinol (CBN)	0.050	0.155	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.110	0.339	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.192	0.592	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.174	0.538	1.713	1.85	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.155	0.477	ND	ND	
Tetrahydrocannabivarin (THCV)	0.035	0.108	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.136	0.420	ND	ND	
Total Cannabinoids			67.056	72.41	
Total Potential THC			1.713	1.85	
Total Potential CBD			62.944	67.97	

Final ApprovalSam Smith
15Mar2023
01:01:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
15Mar2023
01:13:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/a30d742f-e461-4f78-b1d3-ee38dd538da3>**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



CDPHE Certified

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CERTIFICATE OF ANALYSIS

Prepared for:

Nuleaf Naturals

1550 Larimer St #964

Denver, CO USA 80202

D310

Batch ID or Lot Number: LB-O-60371	Test: Heavy Metals	Reported: 20Mar2023	USDA License: NA
Matrix: Unit Co	Test ID: T000238661	Started: 17Mar2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 15Mar2023	Status: NA

Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.42	ND	
Cadmium	0.04 - 4.40	ND	
Mercury	0.04 - 4.47	ND	
Lead	0.04 - 4.39	ND	

Final Approval



Sam Smith
20Mar2023
07:29:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
20Mar2023
07:36:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/ffa4ddf4-a42b-4ca6-a1be-5bc32cd062d4>

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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CERTIFICATE OF ANALYSIS

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202

D310

Batch ID or Lot Number: LB-O-60371	Test: Microbial Contaminants	Reported: 19Mar2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000238660	Started: 15Mar2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 15Mar2023	Status: Active

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

Final Approval



Eden Thompson-Wright
18Mar2023
12:45:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
19Mar2023
12:23:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/97ef0f4c-ff0a-4a84-89e4-a7f25431030d>

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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CERTIFICATE OF ANALYSIS

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202

D304

Batch ID or Lot Number: LB-O-60357	Test: Residual Solvents	Reported: 31Jan2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000234129	Started: 31Jan2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 27Jan2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	119 - 2380	ND	
Butanes (Isobutane, n-Butane)	248 - 4960	ND	
Methanol	75 - 1505	ND	
Pentane	124 - 2490	ND	
Ethanol	120 - 2397	ND	
Acetone	122 - 2443	ND	
Isopropyl Alcohol	124 - 2472	ND	
Hexane	8 - 150	ND	
Ethyl Acetate	124 - 2484	ND	
Benzene	0.3 - 5.2	ND	
Heptanes	133 - 2659	ND	
Toluene	23 - 461	ND	
Xylenes (m,p,o-Xylenes)	170 - 3402	ND	

Final Approval



Sam Smith
31Jan2023
02:45:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
31Jan2023
02:48:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/d9a8c28a-fd1e-4c27-a20e-e3a5e0da526c>

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

D310

Batch ID or Lot Number: LB-O-60371	Test: Pesticides	Reported: 17Mar2023	USDA License: NA
Matrix: Concentrate	Test ID: T000238659	Started: 15Mar2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 15Mar2023	Status: NA

Pesticides

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	346 - 2771	ND
Acephate	43 - 2762	ND
Acetamiprid	42 - 2731	ND
Azoxystrobin	45 - 2755	ND
Bifenazate	47 - 2752	ND
Boscalid	40 - 2797	ND
Carbaryl	43 - 2752	ND
Carbofuran	43 - 2748	ND
Chlorantraniliprole	44 - 2821	ND
Chlorpyrifos	46 - 2751	ND
Clofentezine	279 - 2777	ND
Diazinon	280 - 2744	ND
Dichlorvos	242 - 2766	ND
Dimethoate	43 - 2719	ND
E-Fenpyroximate	285 - 2726	ND
Etofenprox	45 - 2804	ND
Etoxazole	296 - 2715	ND
Fenoxycarb	44 - 2760	ND
Fipronil	50 - 2786	ND
Flonicamid	54 - 2797	ND
Fludioxonil	321 - 2737	ND
Hexythiazox	42 - 2718	ND
Imazalil	293 - 2758	ND
Imidacloprid	47 - 2711	ND
Kresoxim-methyl	23 - 2792	ND

Pesticides	Dynamic Range (ppb)	Result (ppb)
Malathion	302 - 2721	ND
Metalaxyl	47 - 2729	ND
Methiocarb	44 - 2780	ND
Methomyl	41 - 2736	ND
MGK 264 1	168 - 1665	ND
MGK 264 2	119 - 1123	ND
Myclobutanil	51 - 2791	ND
Naled	48 - 2751	ND
Oxamyl	42 - 2737	ND
Paclobutrazol	43 - 2747	ND
Permethrin	273 - 2805	ND
Phosmet	41 - 2737	ND
Prophos	306 - 2757	ND
Propoxur	44 - 2744	ND
Pyridaben	298 - 2741	ND
Spinosad A	34 - 2266	ND
Spinosad D	51 - 495	ND
Spiromesifen	287 - 2712	ND
Spirotetramat	273 - 2768	ND
Spiroxamine 1	18 - 1190	ND
Spiroxamine 2	25 - 1568	ND
Tebuconazole	295 - 2754	ND
Thiacloprid	42 - 2730	ND
Thiamethoxam	43 - 2729	ND
Trifloxystrobin	44 - 2761	ND

Final Approval



Karen Winternheimer
17Mar2023
07:43:00 AM MDT

PREPARED BY / DATE



Sam Smith
17Mar2023
07:45:00 AM 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
ppb = Parts Per Billion

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