

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Nuleaf Naturals**

1550 Larimer St #964  
Denver, CO USA 80202

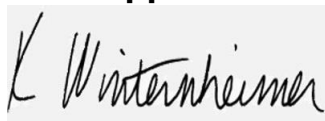
**D309S**

Batch ID or Lot Number: <b>LB-O-60370</b>	Test: <b>Potency</b>	Reported: <b>01Mar2023</b>	USDA License: N/A
Matrix: Solution	Test ID: T000236662	Started: 27Feb2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 24Feb2023	Status: Active

## Cannabinoids

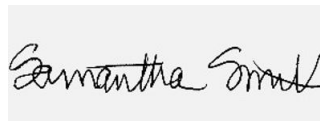
	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.066	0.208	1.118	1.21	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.060	0.190	ND	ND	
Cannabidiol (CBD)	0.199	0.559	31.201	33.69	
Cannabidiolic Acid (CBDA)	0.204	0.573	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.047	0.132	0.171	0.18	
Cannabidivarinic Acid (CBDVA)	0.085	0.239	ND	ND	
Cannabigerol (CBG)	0.037	0.118	0.493	0.53	
Cannabigerolic Acid (CBGA)	0.156	0.494	ND	ND	
Cannabinol (CBN)	0.049	0.154	ND	ND	
Cannabinolic Acid (CBNA)	0.106	0.337	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.186	0.588	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.168	0.534	0.888	0.96	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.149	0.473	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.107	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.132	0.418	ND	ND	
<b>Total Cannabinoids</b>			<b>33.871</b>	<b>36.57</b>	
Total Potential THC			0.888	0.96	
Total Potential CBD			31.201	33.69	

## Final Approval



Karen Winternheimer  
01Mar2023  
08:25:00 AM MST

PREPARED BY / DATE



Sam Smith  
01Mar2023  
08:27:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1d4cd326-f0e7-4484-8c20-ce5cbae0ce00>

### 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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**Nuleaf Naturals**

1550 Larimer St #964  
Denver, CO USA 80202


**D309S**

Batch ID or Lot Number: <b>LB-O-60370</b>	Test: <b>Heavy Metals</b>	Reported: <b>01Mar2023</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000236665	Started: 28Feb2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 24Feb2023	Status: NA

## Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.42	ND	
Cadmium	0.04 - 4.16	ND	
Mercury	0.04 - 4.35	ND	
Lead	0.04 - 4.25	ND	

## Final Approval



Sam Smith  
01Mar2023  
10:31:00 AM MST

PREPARED BY / DATE



Karen Winternheimer  
01Mar2023  
10:37:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/2203747b-4b46-4073-b45f-b5c32ad1b850>

### 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

**D309S**

Batch ID or Lot Number: <b>LB-O-60370</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>28Feb2023</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000236664	Started: 24Feb2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 24Feb2023	Status: Active

## Microbial

### Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## Final Approval



Brett Hudson  
28Feb2023  
10:28:00 AM MST

PREPARED BY / DATE



Brianne Maillot  
28Feb2023  
04:45:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b2a56337-5480-4aa3-8ba3-3074cd0e19a6>

### 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: 10<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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

**D309S**


Batch ID or Lot Number: <b>LB-O-60370</b>	Test: <b>Pesticides</b>	Reported: <b>06Mar2023</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000236663	Started: 05Mar2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 24Feb2023	Status: NA

## Pesticides

	Dynamic Range (ppb)	Result (ppb)
Abamectin	312 - 2676	ND
Acephate	41 - 2833	ND
Acetamiprid	39 - 2779	ND
Azoxystrobin	43 - 2696	ND
Bifenazate	44 - 2698	ND
Boscalid	41 - 2712	ND
Carbaryl	43 - 2709	ND
Carbofuran	42 - 2706	ND
Chlorantraniliprole	40 - 2725	ND
Chlorpyrifos	60 - 2785	ND
Clofentezine	273 - 2762	ND
Diazinon	295 - 2731	ND
Dichlorvos	279 - 2810	ND
Dimethoate	40 - 2788	ND
E-Fenpyroximate	296 - 2739	ND
Etofenprox	36 - 2711	ND
Etoxazole	296 - 2711	ND
Fenoxycarb	40 - 2711	ND
Fipronil	44 - 2774	ND
Flonicamid	51 - 2765	ND
Fludioxonil	309 - 2726	ND
Hexythiazox	53 - 2723	ND
Imazalil	288 - 2728	ND
Imidacloprid	44 - 2783	ND
Kresoxim-methyl	47 - 2754	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	294 - 2699	ND
Metalaxyl	45 - 2737	ND
Methiocarb	41 - 2727	ND
Methomyl	37 - 2817	ND
MGK 264 1	155 - 1671	ND
MGK 264 2	112 - 1145	ND
Myclobutanil	38 - 2722	ND
Naled	42 - 2749	ND
Oxamyl	39 - 2802	ND
Paclobutrazol	45 - 2659	ND
Permethrin	296 - 2719	ND
Phosmet	45 - 2702	ND
Prophos	298 - 2758	ND
Propoxur	40 - 2713	ND
Pyridaben	301 - 2724	ND
Spinosad A	33 - 2224	ND
Spinosad D	48 - 492	ND
Spiromesifen	278 - 2794	ND
Spirotetramat	279 - 2716	ND
Spiroxamine 1	18 - 1169	ND
Spiroxamine 2	24 - 1530	ND
Tebuconazole	294 - 2694	ND
Thiacloprid	40 - 2781	ND
Thiamethoxam	41 - 2781	ND
Trifloxystrobin	42 - 2714	ND

## Final Approval



Sam Smith  
06Mar2023  
09:57:00 AM MST

PREPARED BY / DATE



Karen Winternheimer  
06Mar2023  
10:05:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f423ccac-9521-4243-807b-301a4d94cae6>

### 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

**D309S**

Batch ID or Lot Number: <b>LB-O-60370</b>	Test: <b>Residual Solvents</b>	Reported: <b>28Feb2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000236666	Started: 28Feb2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 24Feb2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2101	ND	
Butanes (Isobutane, n-Butane)	216 - 4321	ND	
Methanol	63 - 1251	ND	
Pentane	106 - 2124	ND	
Ethanol	105 - 2104	ND	
Acetone	103 - 2051	ND	
Isopropyl Alcohol	105 - 2107	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	104 - 2089	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	110 - 2203	ND	
Toluene	19 - 375	ND	
Xylenes (m,p,o-Xylenes)	138 - 2765	ND	

## Final Approval



Sam Smith  
28Feb2023  
03:39:00 PM MST

PREPARED BY / DATE



Karen Winternheimer  
28Feb2023  
03:44:00 PM MST

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<https://results.botanacor.com/api/v1/coas/uuid/820557aa-0c55-4cee-a0c3-b4987259f6de>

### Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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