

Prepared for:

Nuleaf Naturals

D325

Batch ID or Lot Number: LB-O-60427	Test: Potency	Reported: 6/21/23	Location: 1550 Larimer St #964 Denver, CO 80202
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Matrix: Solution	Test ID: T000247087	Started: 6/21/23	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 06/21/2023 @ 10:34 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.421	1.225	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.475	1.382	2.140	2.30	Density = 0.929g/mL
Cannabidiolic acid (CBDA)	0.594	1.531	<LOQ	<LOQ	
Cannabidiol (CBD)	0.579	1.492	61.370	66.06	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.523	1.522	ND	ND	
Cannabinolic Acid (CBNA)	0.300	0.872	ND	ND	
Cannabinol (CBN)	0.137	0.399	ND	ND	
Cannabigerolic acid (CBGA)	0.439	1.277	ND	ND	
Cannabigerol (CBG)	0.105	0.306	1.171	1.26	
Tetrahydrocannabivarinic Acid (THCVA)	0.371	1.080	ND	ND	
Tetrahydrocannabivarin (THCV)	0.096	0.278	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.248	0.639	ND	ND	
Cannabidivarin (CBDV)	0.137	0.353	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.169	0.492	ND	ND	
Cannabichromene (CBC)	0.185	0.538	2.305	2.48	
Total Cannabinoids			66.986	72.10	
Total Potential THC**			2.140	2.30	
Total Potential CBD**			61.370	66.06	

Samantha Smith

Sam Smith
21-Jun-23
4:07 PM

K Winterheimer

Karen Winterheimer
21-Jun-23
4:11 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



Certificate #4329.02

Prepared for:

Nuleaf Naturals
D325


Batch ID or Lot Number: LB-O-60427	Test: Metals	Reported: 6/25/23	Location: 1550 Larimer St #964 Denver, CO 80202
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Matrix: Finished Product	Test ID: T000247090	Started: 6/22/23	USDA License: N/A
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Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 06/21/2023 @ 10:34 AM	Sampler ID: N/A
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HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.030 - 3.03	ND	
Cadmium	0.047 - 4.73	ND	
Mercury	0.042 - 4.22	ND	
Lead	0.039 - 3.87	ND	


 Sam Smith
 25-Jun-23
 10:53 AM

PREPARED BY / DATE


 Karen Winternheimer
 25-Jun-23
 11:08 AM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.



Certificate #4329.02

CERTIFICATE OF ANALYSIS

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202

D325

Batch ID or Lot Number: LB-O-60427	Test: Microbial Contaminants	Reported: 26Jun2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000247089	Started: 21Jun2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 21Jun2023	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



Eden Thompson-Wright
26Jun2023
09:58:00 AM MDT



Brianne Maillot
26Jun2023
04:56:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/34f8e6af-9437-4dcd-a866-d1f2f9e53d4e>

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

D325

Batch ID or Lot Number: LB-O-60427	Test: Pesticides	Reported: 29Jun2023	USDA License: NA
Matrix: Concentrate	Test ID: T000247088	Started: 28Jun2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 21Jun2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	308 - 2726	ND	Malathion	288 - 2702	ND
Acephate	43 - 2716	ND	Metalaxyl	46 - 2683	ND
Acetamiprid	42 - 2723	ND	Methlocarb	42 - 2713	ND
Azoxystrobin	46 - 2669	ND	Methomyl	42 - 2746	ND
Bifenazate	44 - 2667	ND	MGK 264 1	165 - 1708	ND
Boscalid	34 - 2701	ND	MGK 264 2	103 - 1089	ND
Carbaryl	39 - 2722	ND	Myclobutanil	45 - 2719	ND
Carbofuran	43 - 2710	ND	Naled	44 - 2717	ND
Chlorantraniliprole	43 - 2726	ND	Oxamyl	41 - 2764	ND
Chlorpyrifos	39 - 2759	ND	Paclobotrazol	46 - 2715	ND
Clofentezine	288 - 2741	ND	Permethrin	275 - 2730	ND
Diazinon	282 - 2686	ND	Phosmet	46 - 2656	ND
Dichlorvos	285 - 2755	ND	Propfos	293 - 2688	ND
Dimethoate	41 - 2731	ND	Propoxur	43 - 2714	ND
E-Fenpyroximate	272 - 2762	ND	Pyridaben	282 - 2760	ND
Etofenprox	43 - 2725	ND	Spinosad A	30 - 2076	ND
Etoazole	278 - 2748	ND	Spinosad D	58 - 670	ND
Fenoxycarb	13 - 2670	ND	Spiromesifen	269 - 2733	ND
Fipronil	60 - 2716	ND	Spirotetramat	284 - 2693	ND
Flonicamid	52 - 2707	ND	Spiroxamine 1	18 - 1200	ND
Fludioxonil	306 - 2679	ND	Spiroxamine 2	24 - 1504	ND
Hexythiazox	40 - 2786	ND	Tebuconazole	287 - 2718	ND
Imazalil	267 - 2685	ND	Thiacloprid	41 - 2710	ND
Imidacloprid	45 - 2814	ND	Thiamethoxam	39 - 2741	ND
Kresoxim-methyl	45 - 2697	ND	Trifloxystrobin	44 - 2705	ND

Final Approval



Karen Winternheimer
29Jun2023
10:44:00 AM MDT



Sam Smith
29Jun2023
10:46:00 AM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/3e0a5161-98d1-40ae-820d-cc394f62cbb.1>

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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Prepared for:

Nuleaf Naturals

D325

Batch ID or Lot Number: LB-O-60427	Test: Residual Solvents	Reported: 6/26/23	Location: 1550 Larimer St #964 Denver, CO 80202
Matrix: N/A	Test ID: T000247091	Started: 6/26/23	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 06/21/2023 @ 10:34 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	102 - 2031	*ND	
Butanes (Isobutane, n-Butane)	202 - 4049	*ND	
Methanol	60 - 1199	*ND	
Pentane	99 - 1980	*ND	
Ethanol	102 - 2041	*ND	
Acetone	97 - 1940	*ND	
Isopropyl Alcohol	101 - 2011	*ND	
Hexane	6 - 116	*ND	
Ethyl Acetate	97 - 1937	*ND	
Benzene	0.2 - 4	*ND	
Heptanes	100 - 1993	*ND	
Toluene	18 - 354	*ND	
Xylenes (m,p,o-Xylenes)	129 - 2584	*ND	

Samantha Smith

Sam Smith
26-Jun-23
2:24 PM

K. Winterheimer

Karen Winterheimer
26-Jun-23
2:25 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. 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. All decision rulings are in accordance with the MED and results uploaded to MEIRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited AZLA Certificate Number 4329.01



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