

Prepared for:

D251

Nuleaf Naturals

Batch ID or Lot Number: LB-O-60346	Test: Potency	Reported: 12/16/22	Location: 1550 Larimer St #964 Denver, CO 80202
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Matrix: Solution	Test ID: T000230718	Started: 12/15/22	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 12/15/2022 @ 10:58 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)	0.136	0.477	ND	ND	Density = 0.929g/mL
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.154	0.538	2.245	2.42	
Cannabidiolic acid (CBDA)	0.201	0.591	1.667	1.79	
Cannabidiol (CBD)	0.196	0.576	59.631	64.19	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.170	0.592	ND	ND	
Cannabinolic Acid (CBNA)	0.097	0.339	ND	ND	
Cannabinol (CBN)	0.044	0.155	<LOQ	<LOQ	
Cannabigerolic acid (CBGA)	0.142	0.497	ND	ND	
Cannabigerol (CBG)	0.034	0.119	1.278	1.38	
Tetrahydrocannabivarinic Acid (THCVA)	0.120	0.420	ND	ND	
Tetrahydrocannabivarin (THCV)	0.031	0.108	0.140	0.15	
Cannabidivarinic Acid (CBDVA)	0.084	0.246	ND	ND	
Cannabidivarin (CBDV)	0.046	0.136	0.150	0.16	
Cannabichromenic Acid (CBCA)	0.055	0.192	ND	ND	
Cannabichromene (CBC)	0.060	0.210	2.242	2.41	
Total Cannabinoids			67.353	72.50	
Total Potential THC**			2.245	2.42	
Total Potential CBD**			61.093	65.76	

K Winterheimer
Karen Winterheimer
16-Dec-22
2:41 PM

Samantha Smith
Sam Smith
16-Dec-22
2:42 PM

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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)) and

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



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D251
Nuleaf Naturals


Batch ID or Lot Number: LB-O-60346	Test: Metals	Reported: 12/20/22	Location: 1550 Larimer St #964 Denver, CO 80202
Matrix: Other	Test ID: T000230721	Started: 12/19/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 12/15/2022 @ 10:58 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.042 - 4.22	ND	
Cadmium	0.046 - 4.63	ND	
Mercury	0.044 - 4.44	ND	
Lead	0.045 - 4.50	ND	


 Sam Smith
 20-Dec-22
 8:06 AM

PREPARED BY / DATE


 Karen Winternheimer
 20-Dec-22
 8:07 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

Prepared for:

D251

Nuleaf Naturals

Batch ID or Lot Number: LB-O-60346	Test: Microbial Contaminants	Reported: 12/19/22	Location: 1550 Larimer St #964 Denver, CO 80202
Matrix: General/Other	Test ID: T000230720	Started: 12/15/22	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 12/15/2022 @ 10:58 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	2.0x10 ³ - 3.0x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	2.0x10 ² - 3.0x10 ⁴ CFU/g	None Detected	
STEC	TM-25, PCR	10 ⁰ CFU/25 g	N/A	Absent	
Salmonella	TM-25, PCR	10 ⁰ CFU/25 g	N/A	Absent	

Eden Thompson
Eden Thompson-Wright
12/18/2022
9:36:00 AM

Brianne Maillot
Brianne Maillot
12/19/2022
9:37:00 AM

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Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation
CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*
* 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

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Nuleaf Naturals

Batch ID or Lot Number: LB-O-60346	Test: Pesticides	Reported: 12/16/22	Location: 1550 Larimer St #964 Denver, CO 80202
Matrix: Concentrate	Test ID: t000230719	Started: 12/14/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 12/15/2022 @ 10:58 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	44	ND	Fenoxycarb	43	ND	Paclobutrazol	39	ND
Acetamiprid	41	ND	Fipronil	40	ND	Permethrin	167	ND
Abamectin	321	ND	Flonicamid	51	ND	Phosmet	41	ND
Azoxystrobin	44	ND	Fludioxonil	256	ND	Prophos	275	ND
Bifenazate	41	ND	Hexythiazox	42	ND	Propoxur	41	ND
Boscalid	45	ND	Imazalil	257	ND	Pyridaben	291	ND
Carbaryl	42	ND	Imidacloprid	47	ND	Spinosad A	34	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	51	ND
Chlorantraniliprole	47	ND	Malathion	284	ND	Spiromesifen	280	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	270	ND
Clofentezine	273	ND	Methiocarb	44	ND	Spiroxamine 1	18	ND
Diazinon	280	ND	Methomyl	44	ND	Spiroxamine 2	24	ND
Dichlorvos	286	ND	MGK 264 1	182	ND	Tebuconazole	288	ND
Dimethoate	42	ND	MGK 264 2	119	ND	Thiacloprid	43	ND
E-Fenpyroximate	294	ND	Myclobutanil	46	ND	Thiamethoxam	41	ND
Etofenprox	39	ND	Naled	43	ND	Trifloxystrobin	41	ND
Etoxazole	300	ND	Oxamyl	1500	ND			

K Winternheimer
 Karen Winternheimer
 12/16/2022
 9:22:00 AM

Samantha Smith
 Sam Smith
 12/16/2022
 9:32:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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Nuleaf Naturals

Batch ID or Lot Number: LB-O-60346	Test: Residual Solvents	Reported: 12/20/22	Location: 1550 Larimer St #964 Denver, CO 80202
Matrix: N/A	Test ID: T000230722	Started: 12/20/22	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 12/15/2022 @ 10:58 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1747	*ND	
Butanes (Isobutane, n-Butane)	165 - 3303	*ND	
Methanol	59 - 1189	*ND	
Pentane	83 - 1667	*ND	
Ethanol	97 - 1943	*ND	
Acetone	89 - 1785	*ND	
Isopropyl Alcohol	108 - 2169	*ND	
Hexane	5 - 100	*ND	
Ethyl Acetate	96 - 1910	*ND	
Benzene	0.2 - 4.1	*ND	
Heptanes	94 - 1879	*ND	
Toluene	18 - 368	*ND	
Xylenes (m,p,o-Xylenes)	138 - 2761	*ND	

 Sam Smith
20-Dec-22
2:36 PM

 Karen Winternheimer
20-Dec-22
2:38 PM

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APPROVED BY / DATE

Definitions

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

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Batch ID or Lot Number: LB-O-60346	Test: Mycotoxins	Reported: 12/22/22	Location: 1550 Larimer St #964 Denver, CO 80202
Matrix: Concentrate	Test ID: T000230723	Started: 12/21/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 12/15/2022 @ 10:58 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.5 - 133.4	ND	N/A
Aflatoxin B1	1 - 33.3	ND	
Aflatoxin B2	1 - 33	ND	
Aflatoxin G1	1.2 - 33.4	ND	
Aflatoxin G2	0.9 - 32.8	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smith
Sam Smith
22-Dec-22
8:42 AM

PREPARED BY / DATE

K Winterheimer
Karen Winterheimer
22-Dec-22
8:44 AM

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Definitions

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

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