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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for:
Nuleaf Naturals
1550 Larimer St #964
Denver, CO USA 80202

D310

Batch ID or Lot Number:	Test:	Reported:	USDA License:
LB-O-60371	**Potency**	**15Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000238658	15Mar2023	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 Approval

Sam Smith
15Mar2023
01:01:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
15Mar2023
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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)).

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
LB-O-60371	**Heavy Metals**	**20Mar2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000238661	17Mar2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	15Mar2023	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
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Karen Winternheimer
20Mar2023
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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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
LB-O-60371	**Microbial Contaminants**	**19Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000238660	15Mar2023	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
Salmonella	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
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Brianne Maillot
19Mar2023
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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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
LB-O-60371	**Pesticides**	**17Mar2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000238659	15Mar2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	15Mar2023	NA

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

	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
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APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f5015b9d-df65-46e4-9cbd-3fc7f5fabce8

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

Cert #4329.02
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Batch ID or Lot Number:	Test:	Reported:	USDA License:
LB-O-60371	**Residual Solvents**	**20Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000238662	20Mar2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	15Mar2023	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	87 - 1741	ND	
Butanes (Isobutane, n-Butane)	180 - 3609	ND	
Methanol	54 - 1077	ND	
Pentane	89 - 1784	ND	
Ethanol	93 - 1850	ND	
Acetone	87 - 1747	ND	
Isopropyl Alcohol	90 - 1809	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	89 - 1780	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	93 - 1869	ND	
Toluene	16 - 325	ND	
Xylenes (m,p,o-Xylenes)	117 - 2345	ND	

Final Approval

Sam Smith
20Mar2023
01:16:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
20Mar2023
01:19:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/c0342eda-3d9f-4b19-a9ff-7b4bcbfc8f64

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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
LB-O-60371	**Mycotoxins**	**22Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000238663	21Mar2023	N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 15Mar2023	Status: Active

Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	2.32 - 135.60	ND	N/A
Aflatoxin B1	1.13 - 33.97	ND	
Aflatoxin B2	0.96 - 33.93	ND	
Aflatoxin G1	1.23 - 34.43	ND	
Aflatoxin G2	1.33 - 33.87	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
22Mar2023
11:39:00 AM MDT
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Karen Winternheimer
22Mar2023
11:43:00 AM MDT
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https://results.botanacor.com/api/v1/coas/uuid/44d10a07-14eb-46c7-9164-f61d9214cc59

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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