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CERTIFICATE OF ANALYSIS

Prepared for:
NULEAF NATURALS
1550 LARIMER ST. #964
DENVER, CO USA 80202

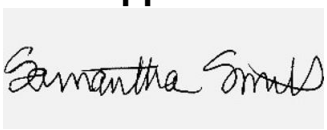
B403-0235

Batch ID or Lot Number:	Test:	Reported:	USDA License:
G250	**Potency**	**19Dec2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000230758	16Dec2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	13Dec2022	N/A

Cannabinoids

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.441	1.717	1.890	2.10	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.403	1.571	ND	ND	
Cannabidiol (CBD)	1.602	4.757	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	1.643	4.879	ND	ND	
Cannabidivarin (CBDV)	0.379	1.125	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.685	2.035	ND	ND	
Cannabigerol (CBG)	0.250	0.975	57.820	62.80	
Cannabigerolic Acid (CBGA)	1.046	4.076	ND	ND	
Cannabinol (CBN)	0.326	1.272	1.990	2.20	
Cannabinolic Acid (CBNA)	0.714	2.781	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.246	4.857	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.132	4.411	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.003	3.908	ND	ND	
Tetrahydrocannabivarin (THCV)	0.228	0.887	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.884	3.447	ND	ND	
Total Cannabinoids			**61.700**	**67.10**	
Total Potential THC			ND	ND	
Total Potential CBD			0.000	0.00	

Final Approval



Sam Smith
19Dec2022
04:31:00 PM MST
PREPARED BY / DATE

Karen Winternheimer
19Dec2022
04:33:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/83a9777b-9ff1-4aed-be59-71107ab02b90

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:
G250	**Heavy Metals**	**20Dec2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000230761	19Dec2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	13Dec2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.22	ND	
Cadmium	0.05 - 4.63	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.05 - 4.50	ND	

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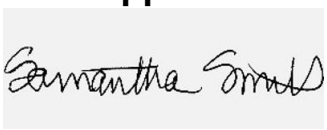

Sam Smith
20Dec2022
08:06:00 AM MST

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Karen Winternheimer
20Dec2022
08:07:00 AM MST

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https://results.botanacor.com/api/v1/coas/uuid/0719c2c3-2828-4183-8ad3-252f142d9f0c

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:
G250	**Microbial Contaminants**	**19Dec2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000230760	14Dec2022	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 13Dec2022	Status: NA

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	

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Brett Hudson
17Dec2022
02:27:00 PM MST

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Brianne Maillot
19Dec2022
09:27:00 AM MST

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https://results.botanacor.com/api/v1/coas/uuid/0a992069-43c2-4945-b673-1a2460d8a318

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:
G250	**Pesticides**	**16Dec2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000230759	14Dec2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	13Dec2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	321 - 2637	ND
Acephate	44 - 2805	ND
Acetamiprid	41 - 2778	ND
Azoxystrobin	44 - 2739	ND
Bifenazate	41 - 2757	ND
Boscalid	45 - 2850	ND
Carbaryl	42 - 2760	ND
Carbofuran	41 - 2759	ND
Chlorantraniliprole	47 - 2775	ND
Chlorpyrifos	53 - 2776	ND
Clofentezine	273 - 2775	ND
Diazinon	280 - 2782	ND
Dichlorvos	286 - 2791	ND
Dimethoate	42 - 2719	ND
E-Fenpyroximate	294 - 2748	ND
Etofenprox	39 - 2748	ND
Etoxazole	300 - 2730	ND
Fenoxycarb	43 - 2747	ND
Fipronil	40 - 2793	ND
Flonicamid	51 - 2761	ND
Fludioxonil	256 - 2801	ND
Hexythiazox	42 - 2732	ND
Imazalil	257 - 2783	ND
Imidacloprid	47 - 2785	ND
Kresoxim-methyl	44 - 2789	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	284 - 2755	ND
Metalaxyl	43 - 2742	ND
Methiocarb	44 - 2752	ND
Methomyl	44 - 2780	ND
MGK 264 1	182 - 1636	ND
MGK 264 2	119 - 1161	ND
Myclobutanil	46 - 2750	ND
Naled	43 - 2793	ND
Oxamyl	42 - 2780	ND
Paclobutrazol	39 - 2755	ND
Permethrin	166 - 2753	ND
Phosmet	41 - 2734	ND
Prophos	275 - 2783	ND
Propoxur	41 - 2752	ND
Pyridaben	291 - 2730	ND
Spinosad A	34 - 2237	ND
Spinosad D	51 - 491	ND
Spiromesifen	280 - 2753	ND
Spirotetramat	270 - 2745	ND
Spiroxamine 1	18 - 1194	ND
Spiroxamine 2	24 - 1562	ND
Tebuconazole	288 - 2716	ND
Thiacloprid	43 - 2770	ND
Thiamethoxam	41 - 2788	ND
Trifloxystrobin	41 - 2773	ND

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Karen Winternheimer
16Dec2022
09:22:00 AM MST

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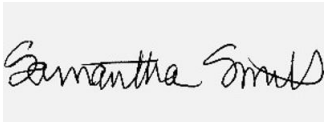

Sam Smith
16Dec2022
09:32:00 AM MST

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https://results.botanacor.com/api/v1/coas/uuid/19d29c72-e284-47fb-8ef8-0366d17d6b56

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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B403-0235

Batch ID or Lot Number:	Test:	Reported:	USDA License:
G250	**Residual Solvents**	**15Dec2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000230762	14Dec2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	13Dec2022	Active

Residual Solvents	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Propane	91 - 1821	ND	
Butanes (Isobutane, n-Butane)	182 - 3639	ND	
Methanol	60 - 1201	ND	
Pentane	98 - 1962	ND	
Ethanol	97 - 1935	ND	
Acetone	98 - 1965	ND	
Isopropyl Alcohol	100 - 1992	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	101 - 2015	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	100 - 2005	ND	
Toluene	18 - 356	ND	
Xylenes (m,p,o-Xylenes)	132 - 2632	ND	

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Karen Winternheimer
15Dec2022
01:46:00 PM MST
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Sam Smith
15Dec2022
01:49:00 PM MST
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https://results.botanacor.com/api/v1/coas/uuid/12d9cb61-6039-4dc4-870b-8400bceda28e

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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