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CERTIFICATE OF ANALYSIS

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

B407-0274

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C307S-07	**Potency**	**01Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000236901	27Feb2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	24Feb2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.093	0.302	12.930	18.60	# of Servings = 1, Sample Weight=0.696g
Cannabichromenic Acid (CBCA)	0.085	0.277	ND	ND	
Cannabidiol (CBD)	0.261	0.794	0.890	1.30	
Cannabidiolic Acid (CBDA)	0.267	0.814	ND	ND	
Cannabidivarin (CBDV)	0.062	0.188	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.112	0.340	ND	ND	
Cannabigerol (CBG)	0.053	0.172	0.870	1.20	
Cannabigerolic Acid (CBGA)	0.220	0.718	ND	ND	
Cannabinol (CBN)	0.069	0.224	0.870	1.20	
Cannabinolic Acid (CBNA)	0.150	0.490	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.262	0.855	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.238	0.776	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.211	0.688	ND	ND	
Tetrahydrocannabivarin (THCV)	0.048	0.156	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.186	0.607	ND	ND	
Total Cannabinoids			**15.560**	**22.30**	
Total Potential THC			0.000	0.00	
Total Potential CBD			0.890	1.30	

Final Approval

Karen Winternheimer
01Mar2023
09:03:00 AM MST
PREPARED BY / DATE

Sam Smith
01Mar2023
09:04:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/c1c69ca0-4abd-4130-9dd7-f7dee121ff00

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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B403-0228

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C307S	**Heavy Metals**	**17Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000235691	16Feb2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	15Feb2023	NA

Heavy Metals	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.89	ND	
Cadmium	0.05 - 4.74	ND	
Mercury	0.04 - 4.30	ND	
Lead	0.04 - 3.87	ND	

Final Approval

Samantha Smith

Sam Smith
17Feb2023
01:27:00 PM MST

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
17Feb2023
01:32:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/134bd036-7e69-41c2-9fcd-bc2ba570871e

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Cert #4329.02
134bd0367e6941c29fcdbc2ba570871e.1

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B403-0228

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C307S	**Microbial Contaminants**	**20Feb2023**	NA
Matrix: Finished Product	Test ID: T000235690	Started: 15Feb2023	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 15Feb2023	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	

Final Approval

Brianne Maillot
19Feb2023
04:22:00 PM MST
PREPARED BY / DATE

Eden Thompson-Wright
20Feb2023
09:49:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/862b4879-6508-46b7-b82e-0af1976ad1d1

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

Cert #4329.02
862b4879650846b7b82e0af1976ad1d1.1

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B403-0228

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C307S	**Pesticides**	**17Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235689	16Feb2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	15Feb2023	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	297 - 2792	ND
Acephate	41 - 2796	ND
Acetamiprid	44 - 2777	ND
Azoxystrobin	45 - 2726	ND
Bifenazate	41 - 2722	ND
Boscalid	41 - 2792	ND
Carbaryl	41 - 2718	ND
Carbofuran	45 - 2698	ND
Chlorantraniliprole	41 - 2742	ND
Chlorpyrifos	38 - 2737	ND
Clofentezine	273 - 2731	ND
Diazinon	291 - 2730	ND
Dichlorvos	263 - 2800	ND
Dimethoate	41 - 2748	ND
E-Fenpyroximate	294 - 2737	ND
Etofenprox	44 - 2698	ND
Etoxazole	309 - 2713	ND
Fenoxycarb	45 - 2730	ND
Fipronil	42 - 2729	ND
Flonicamid	50 - 2770	ND
Fludioxonil	307 - 2813	ND
Hexythiazox	42 - 2732	ND
Imazalil	291 - 2750	ND
Imidacloprid	43 - 2771	ND
Kresoxim-methyl	40 - 2749	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	302 - 2702	ND
Metalaxyl	41 - 2735	ND
Methiocarb	42 - 2747	ND
Methomyl	40 - 2767	ND
MGK 264 1	169 - 1608	ND
MGK 264 2	110 - 1130	ND
Myclobutanil	40 - 2752	ND
Naled	44 - 2720	ND
Oxamyl	43 - 2765	ND
Paclobutrazol	44 - 2698	ND
Permethrin	288 - 2744	ND
Phosmet	42 - 2720	ND
Prophos	295 - 2742	ND
Propoxur	44 - 2713	ND
Pyridaben	310 - 2696	ND
Spinosad A	35 - 2226	ND
Spinosad D	52 - 493	ND
Spiromesifen	285 - 2749	ND
Spirotetramat	289 - 2741	ND
Spiroxamine 1	18 - 1159	ND
Spiroxamine 2	4 - 1599	ND
Tebuconazole	289 - 2696	ND
Thiacloprid	43 - 2750	ND
Thiamethoxam	41 - 2792	ND
Trifloxystrobin	46 - 2706	ND

Final Approval

Karen Winternheimer
17Feb2023
01:56:00 PM MST
PREPARED BY / DATE

Sam Smith
17Feb2023
01:59:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e0388ead-b239-4417-a756-93e6a9dc272f

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

B403-0228

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C307S	**Residual Solvents**	**19Feb2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235692	17Feb2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	15Feb2023	Active

Residual Solvents	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Propane	98 - 1963	ND	
Butanes (Isobutane, n-Butane)	203 - 4058	ND	
Methanol	62 - 1242	ND	
Pentane	100 - 2005	ND	
Ethanol	98 - 1956	ND	
Acetone	99 - 1975	ND	
Isopropyl Alcohol	100 - 2008	ND	
Hexane	6 - 120	ND	
Ethyl Acetate	103 - 2057	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	98 - 1966	ND	
Toluene	18 - 356	ND	
Xylenes (m,p,o-Xylenes)	132 - 2636	ND	

Final Approval

Karen Winternheimer
19Feb2023
08:55:00 AM MST
PREPARED BY / DATE

Sam Smith
19Feb2023
08:58:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/2355b122-c813-42ac-b30c-1d549cea76e3

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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B407-0278

Batch ID or Lot Number:	Test:	Reported:	USDA License:
N306S-07	**Mycotoxins**	**09Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000237015	08Mar2023	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	27Feb2023	Active

Mycotoxins	**Dynamic Range** (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	2.27 - 133.35	ND	N/A
Aflatoxin B1	0.96 - 33.13	ND	
Aflatoxin B2	0.93 - 32.81	ND	
Aflatoxin G1	0.93 - 33.48	ND	
Aflatoxin G2	2.14 - 33.32	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Samantha Smith

Sam Smith
09Mar2023
07:45:00 AM MST

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
09Mar2023
07:48:00 AM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/cd64f557-f783-4135-80b6-5279965820f0

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range