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Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

B407-0408

Batch ID or Lot Number:	Test:	Reported:	USDA License:
9305S-07	**Potency**	**19Feb2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000235970	17Feb2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	16Feb2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.095	0.310	0.430	0.30	# of Servings = 1, Sample Weight=1.273g
Cannabichromenic Acid (CBCA)	0.087	0.283	ND	ND	
Cannabidiol (CBD)	0.293	0.895	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	0.300	0.918	ND	ND	
Cannabidivarin (CBDV)	0.069	0.212	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.125	0.383	ND	ND	
Cannabigerol (CBG)	0.054	0.176	0.420	0.30	
Cannabigerolic Acid (CBGA)	0.226	0.736	ND	ND	
Cannabinol (CBN)	0.071	0.230	0.450	0.40	
Cannabinolic Acid (CBNA)	0.154	0.502	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.269	0.876	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.245	0.796	2.210	1.70	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.217	0.705	ND	ND	
Tetrahydrocannabivarin (THCV)	0.049	0.160	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.191	0.622	ND	ND	
Total Cannabinoids			**3.510**	**2.70**	
Total Potential THC			2.210	1.70	
Total Potential CBD			0.000	0.00	

Final Approval

Karen Winternheimer
19Feb2023
12:23:00 PM MST
PREPARED BY / DATE

Sam Smith
19Feb2023
12:25:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/d936f57a-4c46-4e95-9f2c-bc1932f478f8

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)).

Cert #4329.02
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NULEAF NATURALS
1550 LARIMER ST. #964
DENVER, CO USA 80202

B403-0407

Batch ID or Lot Number:	Test:	Reported:	USDA License:
9305	**Heavy Metals**	**13Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000234573	06Feb2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	02Feb2023	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.06 - 6.39	ND	Amendment to T000234573 issued on 08Feb2023 to correct the batch ID.
Cadmium	0.06 - 6.33	ND	
Mercury	0.06 - 6.29	ND	
Lead	0.06 - 6.26	ND	

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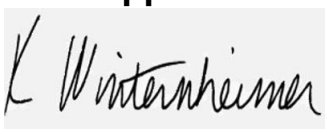

Karen Winternheimer
10Feb2023
11:20:00 AM MST

PREPARED BY / DATE

Sam Smith
13Feb2023
10:32:00 AM MST

APPROVED BY / DATE

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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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B403-0407

Batch ID or Lot Number:	Test:	Reported:	USDA License:
9305	**Microbial Contaminants**	**13Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000234572	03Feb2023	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 02Feb2023	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. Amendment to T000234572 issued on 07Feb2023 to correct the batch ID.
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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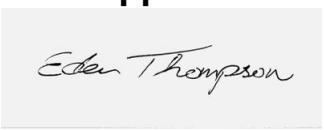

Eden Thompson-Wright
10Feb2023
11:27:00 AM MST

PREPARED BY / DATE

Brianne Maillot
13Feb2023
10:47:00 AM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/414d8e22-b958-4a73-a74d-1bec18e0527a

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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B403-0407

Batch ID or Lot Number:	Test:	Reported:	USDA License:
9305	**Pesticides**	**13Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000234571	08Feb2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	02Feb2023	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	358 - 2647	ND
Acephate	42 - 2759	ND
Acetamiprid	43 - 2753	ND
Azoxystrobin	44 - 2729	ND
Bifenazate	43 - 2722	ND
Boscalid	45 - 2744	ND
Carbaryl	43 - 2719	ND
Carbofuran	44 - 2734	ND
Chlorantraniliprole	43 - 2726	ND
Chlorpyrifos	53 - 2824	ND
Clofentezine	275 - 2769	ND
Diazinon	292 - 2733	ND
Dichlorvos	275 - 2786	ND
Dimethoate	41 - 2737	ND
E-Fenpyroximate	293 - 2797	ND
Etofenprox	41 - 2790	ND
Etoxazole	309 - 2762	ND
Fenoxycarb	47 - 2690	ND
Fipronil	56 - 2762	ND
Flonicamid	43 - 2825	ND
Fludioxonil	318 - 2756	ND
Hexythiazox	45 - 2799	ND
Imazalil	288 - 2739	ND
Imidacloprid	41 - 2755	ND
Kresoxim-methyl	23 - 2807	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	280 - 2717	ND
Metalaxyl	46 - 2718	ND
Methiocarb	41 - 2688	ND
Methomyl	43 - 2762	ND
MGK 264 1	154 - 1645	ND
MGK 264 2	116 - 1140	ND
Myclobutanil	45 - 2763	ND
Naled	43 - 2762	ND
Oxamyl	41 - 2766	ND
Paclobutrazol	40 - 2726	ND
Permethrin	313 - 2795	ND
Phosmet	44 - 2709	ND
Prophos	312 - 2672	ND
Propoxur	41 - 2724	ND
Pyridaben	313 - 2786	ND
Spinosad A	35 - 2253	ND
Spinosad D	52 - 508	ND
Spiromesifen	292 - 2770	ND
Spirotetramat	274 - 2731	ND
Spiroxamine 1	16 - 1206	ND
Spiroxamine 2	21 - 1539	ND
Tebuconazole	277 - 2724	ND
Thiacloprid	44 - 2774	ND
Thiamethoxam	42 - 2785	ND
Trifloxystrobin	44 - 2758	ND

Final Approval

Karen Winternheimer
10Feb2023
11:12:00 AM MST
PREPARED BY / DATE

Sam Smith
13Feb2023
10:38:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/148e2fc3-1605-4954-a59f-76c46225379a

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

B403-0407

Batch ID or Lot Number:	Test:	Reported:	USDA License:
9305	**Residual Solvents**	**13Feb2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000234574	06Feb2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	02Feb2023	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)
Propane	100 - 1997	ND
Butanes (Isobutane, n-Butane)	207 - 4135	ND
Methanol	66 - 1325	ND
Pentane	105 - 2105	ND
Ethanol	106 - 2125	ND
Acetone	106 - 2128	ND
Isopropyl Alcohol	112 - 2243	ND
Hexane	6 - 126	ND
Ethyl Acetate	107 - 2147	ND
Benzene	0.2 - 4.2	ND
Heptanes	108 - 2163	ND
Toluene	19 - 389	ND
Xylenes (m,p,o-Xylenes)	144 - 2875	ND

Notes
Amendment to T000234574 issued on 06Feb2023 to correct the batch ID.

Final Approval

Karen Winternheimer
10Feb2023
11:46:00 AM MST
PREPARED BY / DATE

Sam Smith
13Feb2023
10:43:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4aae1bd2-d347-49c6-8dbc-f19e95af81f3

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

4aae1bd2d34749c68dbcf19e95af81f3.2

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1550 LARIMER ST. #964
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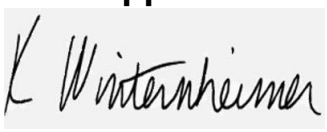
B403-0407

Batch ID or Lot Number:	Test:	Reported:	USDA License:
9305	**Mycotoxins**	**13Feb2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000234575	08Feb2023	N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 02Feb2023	Status: Active

Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.99 - 124.53	ND	Amendment to T000234575 issued on 09Feb2023 to correct the batch ID. N/A
Aflatoxin B1	1.05 - 32.13	ND	
Aflatoxin B2	0.99 - 32.35	ND	
Aflatoxin G1	1.12 - 32.64	ND	
Aflatoxin G2	1.15 - 32.71	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Karen Winternheimer
10Feb2023
11:16:00 AM MST
PREPARED BY / DATE

Sam Smith
13Feb2023
10:35:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/35dbec2b-30cb-4997-8701-69d028340c69

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