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CERTIFICATE OF ANALYSIS

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

R60-BBD

Batch ID or Lot Number:	Test:	Reported:	USDA License:
D233	**Potency**	**26Aug2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000219243	25Aug2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	24Aug2022	N/A

Cannabinoids

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.196	0.555	2.200	2.40	Density = 0.93206g/mL
Cannabichromenic Acid (CBCA)	0.179	0.508	ND	ND	
Cannabidiol (CBD)	0.408	1.444	57.400	61.60	
Cannabidiolic Acid (CBDA)	0.418	1.481	ND	ND	
Cannabidivarin (CBDV)	0.096	0.342	0.180	0.20	
Cannabidivarinic Acid (CBDVA)	0.174	0.618	ND	ND	
Cannabigerol (CBG)	0.111	0.315	1.400	1.50	
Cannabigerolic Acid (CBGA)	0.465	1.318	ND	ND	
Cannabinol (CBN)	0.145	0.411	ND	ND	
Cannabinolic Acid (CBNA)	0.318	0.899	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.555	1.570	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.504	1.426	1.690	1.80	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.446	1.263	ND	ND	
Tetrahydrocannabivarin (THCV)	0.101	0.287	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.394	1.114	ND	ND	
Total Cannabinoids			**62.870**	**67.45**	
Total Potential THC			1.690	1.81	
Total Potential CBD			57.400	61.58	

Final Approval

Jacob Miller
26Aug2022
03:19:00 PM MDT
PREPARED BY / DATE

Sam Smith
26Aug2022
03:26:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/8ec1c410-8ae1-493c-968a-90acd024a48a

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:
D233	**Heavy Metals**	**29Aug2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000219247	29Aug2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	24Aug2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.72	ND	
Cadmium	0.05 - 4.81	ND	
Mercury	0.04 - 4.45	ND	
Lead	0.05 - 5.01	ND	

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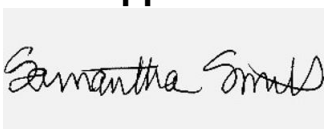

Sam Smith
29Aug2022
05:15:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul
30Aug2022
06:03:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6ae59a46-a991-41c7-8127-22ea10bff8dc

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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DENVER, CO USA 80202

R60-BBD

Batch ID or Lot Number:	Test:	Reported:	USDA License:
D233	**Microbial Contaminants**	**28Aug2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000219246	24Aug2022	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 24Aug2022	Status: NA

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/g	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
27Aug2022
03:10:00 PM MDT
PREPARED BY / DATE

Brett Hudson
28Aug2022
02:54:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6d8dcf09-0575-41c1-929b-52699b36e2aa

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:
D233	**Pesticides**	**29Aug2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219245	25Aug2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	24Aug2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	326 - 2612	ND
Acephate	52 - 2697	ND
Acetamiprid	44 - 2694	ND
Azoxystrobin	38 - 2757	ND
Bifenazate	48 - 2758	ND
Boscalid	57 - 2681	ND
Carbaryl	44 - 2755	ND
Carbofuran	40 - 2758	ND
Chlorantraniliprole	55 - 2676	ND
Chlorpyrifos	46 - 2802	ND
Clofentezine	276 - 2832	ND
Diazinon	289 - 2832	ND
Dichlorvos	308 - 2682	ND
Dimethoate	47 - 2672	ND
E-Fenpyroximate	300 - 2780	ND
Etofenprox	49 - 2713	ND
Etoxazole	295 - 2780	ND
Fenoxycarb	42 - 2814	ND
Fipronil	2 - 2763	ND
Flonicamid	46 - 2720	ND
Fludioxonil	341 - 2606	ND
Hexythiazox	48 - 2764	ND
Imazalil	297 - 2797	ND
Imidacloprid	46 - 2646	ND
Kresoxim-methyl	52 - 2807	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	278 - 2825	ND
Metalaxyl	38 - 2779	ND
Methiocarb	48 - 2694	ND
Methomyl	50 - 2686	ND
MGK 264 1	139 - 1646	ND
MGK 264 2	116 - 1153	ND
Myclobutanil	51 - 2644	ND
Naled	51 - 2682	ND
Oxamyl	45 - 2670	ND
Paclobutrazol	40 - 2792	ND
Permethrin	330 - 2715	ND
Phosmet	40 - 2848	ND
Prophos	314 - 2690	ND
Propoxur	41 - 2754	ND
Pyridaben	290 - 2793	ND
Spinosad A	35 - 2268	ND
Spinosad D	62 - 488	ND
Spiromesifen	307 - 2754	ND
Spirotetramat	333 - 2721	ND
Spiroxamine 1	24 - 1156	ND
Spiroxamine 2	32 - 1528	ND
Tebuconazole	271 - 2876	ND
Thiacloprid	39 - 2704	ND
Thiamethoxam	43 - 2740	ND
Trifloxystrobin	38 - 2805	ND

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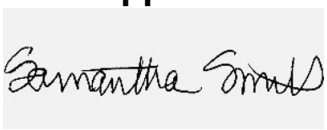

Sam Smith
29Aug2022
05:25:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul
29Aug2022
05:28:00 PM MDT

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
ppb = Parts Per Billion

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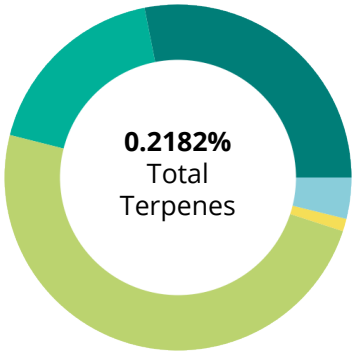
R60-BBD

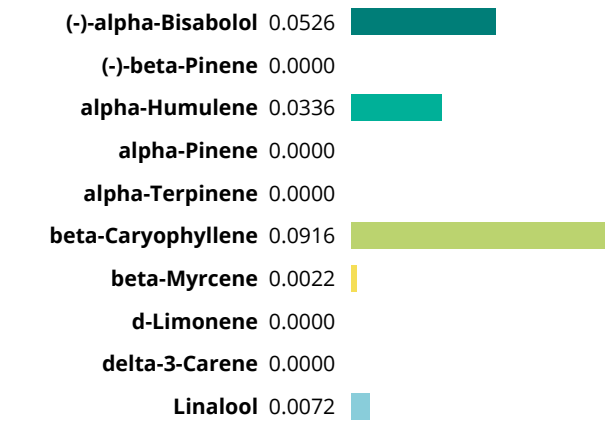
Batch ID or Lot Number:	Test:	Reported:	USDA License:
D233	**Terpenes**	**30Aug2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000219244	26Aug2022	NA
	Method(s):	Received:	Status:
	TM22 (GC-MS)	24Aug2022	NA

Terpenes

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0526	0.526
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0240	0.240
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0336	0.336
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0916	0.916
beta-Myrcene	0.0022	0.022
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0072	0.072
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0070	0.070
	0.2182	**2.1820**



PREDOMINANT TERPENES



Notes

Final Approval

Daniel Weidensaul
30Aug2022
09:04:00 AM MDT
PREPARED BY / DATE

Jacob Miller
30Aug2022
09:06:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/3dc424b3-b5fc-49e2-875b-6b8311f772f4

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DENVER, CO USA 80202

R60-BBD

Batch ID or Lot Number:	Test:	Reported:	USDA License:
D233	**Residual Solvents**	**25Aug2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219248	25Aug2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	24Aug2022	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	85 - 1691	ND	
Butanes (Isobutane, n-Butane)	176 - 3529	ND	
Methanol	55 - 1103	ND	
Pentane	92 - 1835	ND	
Ethanol	90 - 1809	ND	
Acetone	90 - 1807	ND	
Isopropyl Alcohol	96 - 1919	ND	
Hexane	6 - 111	ND	
Ethyl Acetate	91 - 1818	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	95 - 1899	ND	
Toluene	16 - 325	ND	
Xylenes (m,p,o-Xylenes)	121 - 2425	ND	

Final Approval

Jacob Miller
25Aug2022
05:08:00 PM MDT
PREPARED BY / DATE

Daniel Weidensaul
25Aug2022
05:08:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/bd57eeab-8a4c-4af0-a0b0-077a3fda5759

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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bd57eeab8a4c4af0a0b0077a3fda5759.1

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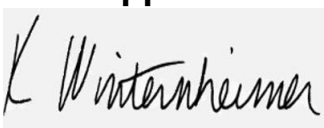
R60-BBD

Batch ID or Lot Number:	Test:	Reported:	USDA License:
D233	**Density**	**25Aug2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219249	12Jul2022	NA
	Method(s):	Received:	Status:
	TL-SOP-0034 (Gravimetric)	24Aug2022	NA

Density Analysis

	Result	Notes
Density	0.932 g/ml	Free from visual mold, mildew, and foreign matter N/A

Final Approval



Karen Winternheimer
25Aug2022
12:05:00 PM MDT
PREPARED BY / DATE

Sam Smith
25Aug2022
12:07:00 PM MDT
APPROVED BY / DATE

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