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CERTIFICATE OF ANALYSIS

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

R30-BBC

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C242S	**Potency**	**21Oct2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000224937	20Oct2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	17Oct2022	N/A

Cannabinoids

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.202	0.597	28.450	30.90	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.184	0.546	ND	ND	
Cannabidiol (CBD)	0.535	1.612	2.200	2.40	
Cannabidiolic Acid (CBDA)	0.548	1.653	ND	ND	
Cannabidivarin (CBDV)	0.126	0.381	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.229	0.690	ND	ND	
Cannabigerol (CBG)	0.115	0.339	1.910	2.10	
Cannabigerolic Acid (CBGA)	0.479	1.416	ND	ND	
Cannabinol (CBN)	0.149	0.442	2.130	2.30	
Cannabinolic Acid (CBNA)	0.327	0.966	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.570	1.687	<LOQ	1.70	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.518	1.532	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.459	1.358	ND	ND	
Tetrahydrocannabivarin (THCV)	0.104	0.308	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.405	1.197	ND	ND	
Total Cannabinoids			**36.220**	**39.37**	
Total Potential THC			ND	ND	
Total Potential CBD			2.200	2.39	

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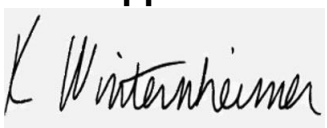

Karen Winternheimer
21Oct2022
02:46:00 PM MDT

PREPARED BY / DATE

Sam Smith
21Oct2022
02:47:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/2f1406fb-3f42-42e9-8432-228a291f15c2

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:
C242S	**Heavy Metals**	**25Oct2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000224940	24Oct2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	17Oct2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.19	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 3.79	ND	
Lead	0.04 - 4.13	ND	

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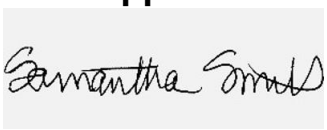

Sam Smith
25Oct2022
08:37:00 AM MDT

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Karen Winternheimer
25Oct2022
08:42:00 AM MDT

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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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
C242S	**Microbial Contaminants**	**21Oct2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000224939	18Oct2022	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 17Oct2022	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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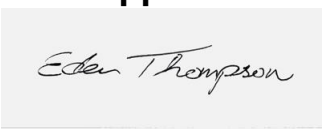

Eden Thompson-Wright
21Oct2022
03:24:00 PM MDT
PREPARED BY / DATE

Brianne Maillot
21Oct2022
03:33:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/c3ee0ef0-ae78-469b-bd4b-d7291dcbd8eb

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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R30-BBC

Batch ID or Lot Number:	Test:	Reported:	USDA License:
C242S	**Pesticides**	**26Oct2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000224938	25Oct2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	17Oct2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	251 - 2634	ND
Acephate	35 - 2752	ND
Acetamiprid	36 - 2688	ND
Azoxystrobin	40 - 2741	ND
Bifenazate	38 - 2718	ND
Boscalid	41 - 2823	ND
Carbaryl	40 - 2721	ND
Carbofuran	41 - 2709	ND
Chlorantraniliprole	43 - 2763	ND
Chlorpyrifos	56 - 2830	ND
Clofentezine	279 - 2735	ND
Diazinon	277 - 2745	ND
Dichlorvos	258 - 2688	ND
Dimethoate	37 - 2672	ND
E-Fenpyroximate	283 - 2752	ND
Etofenprox	42 - 2757	ND
Etoxazole	288 - 2732	ND
Fenoxycarb	45 - 2766	ND
Fipronil	58 - 2756	ND
Flonicamid	39 - 2707	ND
Fludioxonil	286 - 2787	ND
Hexythiazox	39 - 2786	ND
Imazalil	259 - 2800	ND
Imidacloprid	42 - 2697	ND
Kresoxim-methyl	17 - 2783	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	288 - 2733	ND
Metalaxyl	40 - 2748	ND
Methiocarb	42 - 2801	ND
Methomyl	34 - 2705	ND
MGK 264 1	144 - 1597	ND
MGK 264 2	113 - 1138	ND
Myclobutanil	45 - 2760	ND
Naled	47 - 2735	ND
Oxamyl	38 - 2691	ND
Paclobutrazol	43 - 2705	ND
Permethrin	282 - 2780	ND
Phosmet	42 - 2720	ND
Prophos	287 - 2746	ND
Propoxur	40 - 2714	ND
Pyridaben	289 - 2762	ND
Spinosad A	30 - 2259	ND
Spinosad D	43 - 500	ND
Spiromesifen	270 - 2789	ND
Spirotetramat	260 - 2788	ND
Spiroxamine 1	16 - 1183	ND
Spiroxamine 2	20 - 1603	ND
Tebuconazole	294 - 2729	ND
Thiacloprid	36 - 2683	ND
Thiamethoxam	40 - 2711	ND
Trifloxystrobin	41 - 2738	ND

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Sam Smith
26Oct2022
11:01:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
26Oct2022
11:05:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/cf1ac5f3-1d97-44f0-ad8d-fac2b1162188

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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
C242S	**Residual Solvents**	**20Oct2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000224941	19Oct2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	17Oct2022	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	84 - 1678	ND	
Butanes (Isobutane, n-Butane)	175 - 3496	ND	
Methanol	55 - 1099	ND	
Pentane	93 - 1861	ND	
Ethanol	90 - 1792	ND	
Acetone	92 - 1838	ND	
Isopropyl Alcohol	93 - 1858	ND	
Hexane	6 - 112	ND	
Ethyl Acetate	92 - 1840	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	94 - 1871	ND	
Toluene	17 - 332	ND	
Xylenes (m,p,o-Xylenes)	124 - 2476	ND	

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Sam Smith
20Oct2022
08:51:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
20Oct2022
08:54:00 AM MDT
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https://results.botanacor.com/api/v1/coas/uuid/9e95f010-0f49-4987-9e15-70e7db4d17ea

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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