

Prepared for:  
**NULEAF NATURALS**

1550 LARIMER ST. #964  
DENVER, CO USA 80202

## 3:1 CBD:CBN Gummy (Mixed Berry)

Batch ID or Lot Number: <b>220204</b>	Test: <b>Potency</b>	Reported: <b>30Aug2022</b>	USDA License: N/A
Matrix: Unit	Test ID: T000219587	Started: 29Aug2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 26Aug2022	Status: N/A

### Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.396	1.107	0.750	0.20	# of Servings = 1, Sample Weight=4.958g
Cannabichromenic Acid (CBCA)	0.362	1.013	ND	ND	
Cannabidiol (CBD)	0.909	2.722	21.690	4.40	
Cannabidiolic Acid (CBDA)	0.932	2.792	ND	ND	
Cannabidivarin (CBDV)	0.215	0.644	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.389	1.165	ND	ND	
Cannabigerol (CBG)	0.225	0.629	ND	ND	
Cannabigerolic Acid (CBGA)	0.939	2.627	ND	ND	
Cannabinol (CBN)	0.293	0.820	6.600	1.30	
Cannabinolic Acid (CBNA)	0.641	1.793	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.119	3.130	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.016	2.843	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.900	2.519	ND	ND	
Tetrahydrocannabivarin (THCV)	0.204	0.572	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.794	2.222	ND	ND	
<b>Total Cannabinoids</b>			<b>29.040</b>	<b>5.86</b>	
Total Potential THC			ND	ND	
Total Potential CBD			21.690	4.37	

### Final Approval



Daniel Weidensaul  
30Aug2022  
03:12:00 PM MDT



Jacob Miller  
30Aug2022  
03:14:00 PM MDT



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APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/2d8c0e5b-43e5-426f-a2a2-f9e856976e4d>

**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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Prepared for:

## NULEAF NATURALS

1550 LARIMER ST. #964  
DENVER, CO USA 80202


### 3:1 CBD:CBN Gummy (Mixed Berry)

Batch ID or Lot Number: <b>220204</b>	Test: <b>Heavy Metals</b>	Reported: <b>31Aug2022</b>	USDA License: NA
Matrix: Unit	Test ID: T000219591	Started: 30Aug2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 26Aug2022	Status: NA

### Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.54	ND	
Cadmium	0.05 - 4.58	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.05 - 4.57	ND	

### Final Approval



Sam Smith  
31Aug2022  
02:01:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul  
31Aug2022  
02:17:00 PM 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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**NULEAF NATURALS**

1550 LARIMER ST. #964  
DENVER, CO USA 80202


## 3:1 CBD:CBN Gummy (Mixed Berry)

Batch ID or Lot Number: <b>220204</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>14Sep2022</b>	USDA License: NA
Matrix: Finished Product	Test ID: T000219590	Started: 26Aug2022	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 26Aug2022	Status: NA

## Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## Final Approval



Eden Thompson-Wright  
29Aug2022  
01:59:00 PM MDT

PREPARED BY / DATE



Sarah Henning  
29Aug2022  
03:20:00 PM MDT

APPROVED BY / DATE



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### 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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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Prepared for:  
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1550 LARIMER ST. #964  
DENVER, CO USA 80202

## 3:1 CBD:CBN Gummy (Mixed Berry)

Batch ID or Lot Number: <b>220204</b>	Test: <b>Pesticides</b>	Reported: <b>01Sep2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000219589	Started: 31Aug2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 26Aug2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	336 - 2764	ND	Malathion	286 - 2727	ND
Acephate	38 - 2825	ND	Metalaxyl	44 - 2773	ND
Acetamiprid	40 - 2748	ND	Methiocarb	43 - 2781	ND
Azoxystrobin	44 - 2772	ND	Methomyl	41 - 2781	ND
Bifenazate	39 - 2738	ND	MGK 264 1	169 - 1643	ND
Boscalid	41 - 2797	ND	MGK 264 2	101 - 1157	ND
Carbaryl	40 - 2768	ND	Myclobutanil	48 - 2791	ND
Carbofuran	40 - 2730	ND	Naled	48 - 2779	ND
Chlorantraniliprole	40 - 2745	ND	Oxamyl	42 - 2787	ND
Chlorpyrifos	39 - 2718	ND	Pacllobutrazol	42 - 2723	ND
Clofentezine	270 - 2766	ND	Permethrin	289 - 2741	ND
Diazinon	280 - 2765	ND	Phosmet	41 - 2743	ND
Dichlorvos	252 - 2767	ND	Prophos	282 - 2763	ND
Dimethoate	42 - 2738	ND	Propoxur	42 - 2745	ND
E-Fenpyroximate	296 - 2734	ND	Pyridaben	295 - 2753	ND
Etofenprox	42 - 2689	ND	Spinosad A	35 - 2247	ND
Etoxazole	299 - 2720	ND	Spinosad D	48 - 498	ND
Fenoxycarb	41 - 2752	ND	Spiromesifen	283 - 2740	ND
Fipronil	20 - 2847	ND	Spirotetramat	276 - 2798	ND
Flonicamid	50 - 2754	ND	Spiroxamine 1	18 - 1189	ND
Fludioxonil	273 - 2782	ND	Spiroxamine 2	24 - 1591	ND
Hexythiazox	42 - 2699	ND	Tebuconazole	288 - 2837	ND
Imazalil	262 - 2789	ND	Thiacloprid	42 - 2744	ND
Imidacloprid	40 - 2747	ND	Thiamethoxam	40 - 2776	ND
Kresoxim-methyl	42 - 2813	ND	Trifloxystrobin	44 - 2745	ND

## Final Approval



Daniel Weidensaul  
01Sep2022  
01:40:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer  
01Sep2022  
01:46:00 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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DENVER, CO USA 80202

## 3:1 CBD:CBN Gummy (Mixed Berry)

Batch ID or Lot Number: <b>220204</b>	Test: <b>Terpenes</b>	Reported: <b>30Aug2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000219588	Started: 29Aug2022	Sampler ID: NA
	Method(s): TM22 (GC-MS)	Received: 26Aug2022	Status: NA

Terpenes	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0000	0.0000
beta-Myrcene	0.0000	0.0000
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	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	<b>0.0000</b>	<b>0.0000</b>

**0.0000%**  
Total  
Terpenes

### PREDOMINANT TERPENES

**(-)-alpha-Bisabolol** 0.0000  
**(-)-beta-Pinene** 0.0000  
**alpha-Humulene** 0.0000  
**alpha-Pinene** 0.0000  
**alpha-Terpinene** 0.0000  
**beta-Caryophyllene** 0.0000  
**beta-Myrcene** 0.0000  
**d-Limonene** 0.0000  
**delta-3-Carene** 0.0000  
**Linalool** 0.0000

### Notes

## Final Approval



Jacob Miller  
30Aug2022  
01:08:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul  
30Aug2022  
01:10:00 PM MDT

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1550 LARIMER ST. #964  
DENVER, CO USA 80202

### 3:1 CBD:CBN Gummy (Mixed Berry)

Batch ID or Lot Number: <b>220204</b>	Test: <b>Residual Solvents</b>	Reported: <b>29Aug2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000219592	Started: 29Aug2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 26Aug2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	85 - 1709	ND	
Butanes (Isobutane, n-Butane)	181 - 3627	ND	
Methanol	57 - 1147	ND	
Pentane	95 - 1894	ND	
Ethanol	90 - 1791	>1791	
Acetone	94 - 1875	ND	
Isopropyl Alcohol	96 - 1918	ND	
Hexane	6 - 116	ND	
Ethyl Acetate	96 - 1912	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	96 - 1930	ND	
Toluene	17 - 339	ND	
Xylenes (m,p,o-Xylenes)	125 - 2507	ND	

### Final Approval



Daniel Weidensaul  
30Aug2022  
06:19:00 PM MDT

PREPARED BY / DATE



Jacob Miller  
30Aug2022  
06:20:00 PM MDT

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#### Definitions

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