

Prepared for:  
**NULEAF NATURALS**


 1550 LARIMER ST. #964  
 DENVER, CO USA 80202

**R30-BBD**

Batch ID or Lot Number: <b>D2235</b>	Test: <b>Potency</b>	Reported: <b>13Jun2022</b>	USDA License: N/A
Matrix: Solution	Test ID: T000210288	Started: 13Jun2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 13Jun2022	Status: N/A

**Cannabinoids**

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.181	0.590	3.000	3.30	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.166	0.540	ND	ND	
Cannabidiol (CBD)	0.512	1.528	30.230	32.90	
Cannabidiolic Acid (CBDA)	0.525	1.567	ND	ND	
Cannabidivarin (CBDV)	0.121	0.361	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.219	0.654	ND	ND	
Cannabigerol (CBG)	0.103	0.335	2.460	2.70	
Cannabigerolic Acid (CBGA)	0.431	1.400	ND	ND	
Cannabinol (CBN)	0.134	0.437	1.910	2.10	
Cannabinolic Acid (CBNA)	0.294	0.955	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.513	1.668	1.470	1.60	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.466	1.515	1.140	1.20	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.413	1.342	ND	ND	
Tetrahydrocannabivarin (THCV)	0.094	0.305	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.364	1.184	ND	ND	
<b>Total Cannabinoids</b>			<b>40.210</b>	<b>43.71</b>	
Total Potential THC			1.140	1.24	
Total Potential CBD			30.230	32.86	

**Final Approval**


 Sam Smith  
 13Jun2022  
 03:48:00 PM MDT

PREPARED BY / DATE



 Ryan Weems  
 13Jun2022  
 03:49:00 PM MDT

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/c59e4f2d-a51c-4e9e-90e7-bff39620ba58>
**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)).

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.


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 1550 LARIMER ST. #964  
 DENVER, CO USA 80202

**R30-BBD**

Batch ID or Lot Number: <b>D2235</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>16Jun2022</b>	USDA License: NA
Matrix: Finished Product	Test ID: T000210291	Started: 13Jun2022	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 13Jun2022	Status: NA

**Microbial**
**Contaminants**

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/g	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**


 Brianne Maillot  
 16Jun2022  
 10:20:00 AM MDT

PREPARED BY / DATE



 Eden Thompson-Wright  
 16Jun2022  
 11:07:00 AM 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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DENVER, CO USA 80202

## R30-BBD

Batch ID or Lot Number: <b>D2235</b>	Test: <b>Pesticides</b>	Reported: <b>16Jun2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000210290	Started: 14Jun2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 13Jun2022	Status: NA

## Pesticides

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	365 - 2660	ND
Acephate	45 - 2774	ND
Acetamiprid	43 - 2778	ND
Azoxystrobin	40 - 2739	ND
Bifenazate	42 - 2765	ND
Boscalid	15 - 2744	ND
Carbaryl	40 - 2776	ND
Carbofuran	43 - 2761	ND
Chlorantraniliprole	46 - 2731	ND
Chlorpyrifos	47 - 2776	ND
Clofentezine	306 - 2776	ND
Diazinon	298 - 2777	ND
Dichlorvos	311 - 2758	ND
Dimethoate	45 - 2766	ND
E-Fenpyroximate	296 - 2737	ND
Etofenprox	42 - 2726	ND
Etoxazole	299 - 2708	ND
Fenoxycarb	45 - 2737	ND
Fipronil	39 - 2733	ND
Flonicamid	4 - 2732	ND
Fludioxonil	260 - 2633	ND
Hexythiazox	49 - 2737	ND
Imazalil	286 - 2760	ND
Imidacloprid	51 - 2800	ND
Kresoxim-methyl	53 - 2822	ND

Pesticides	Dynamic Range (ppb)	Result (ppb)
Malathion	304 - 2758	ND
Metalaxyl	51 - 2788	ND
Methiocarb	39 - 2735	ND
Methomyl	42 - 2747	ND
MGK 264 1	187 - 1618	ND
MGK 264 2	129 - 1129	ND
Myclobutanil	37 - 2661	ND
Naled	28 - 2666	ND
Oxamyl	3 - 2768	ND
Pacllobutrazol	41 - 2732	ND
Permethrin	340 - 2681	ND
Phosmet	41 - 2752	ND
Prophos	290 - 2708	ND
Propoxur	39 - 2744	ND
Pyridaben	302 - 2767	ND
Spinosad A	36 - 2242	ND
Spinosad D	55 - 497	ND
Spiromesifen	306 - 2722	ND
Spirotetramat	292 - 2784	ND
Spiroxamine 1	17 - 1160	ND
Spiroxamine 2	21 - 1502	ND
Tebuconazole	259 - 2755	ND
Thiacloprid	41 - 2763	ND
Thiamethoxam	45 - 2752	ND
Trifloxystrobin	41 - 2736	ND

## Final Approval



Karen Winternheimer  
16Jun2022  
04:48:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul  
16Jun2022  
05:01:00 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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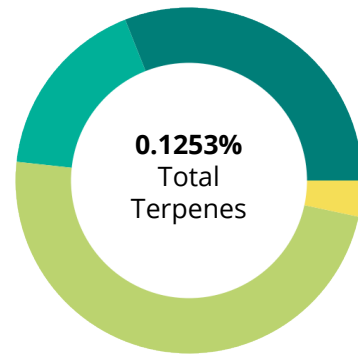
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DENVER, CO USA 80202

## R30-BBD

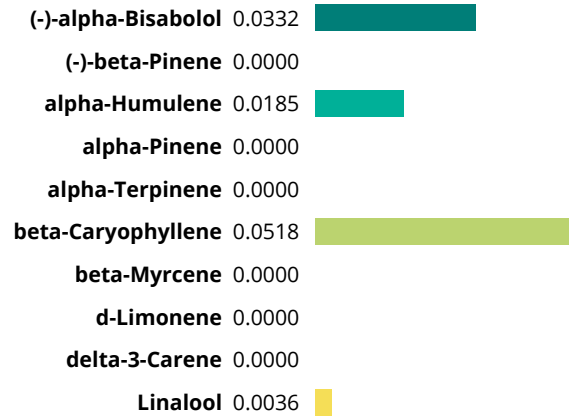
Batch ID or Lot Number: <b>D2235</b>	Test: <b>Terpenes</b>	Reported: <b>14Jun2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000210289	Started: 13Jun2022	Sampler ID: NA
	Method(s): TM22 (GC-MS)	Received: 13Jun2022	Status: NA

## Terpenes

Terpenes	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0332	0.332
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0143	0.143
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0185	0.185
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0518	0.518
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	0.0036	0.036
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0039	0.039
<b>0.1253</b>	<b>1.2530</b>	



### PREDOMINANT TERPENES



### Notes

## Final Approval



PREPARED BY / DATE

Daniel Weidensaul  
14Jun2022  
01:30:00 PM MDT



APPROVED BY / DATE

Jacob Miller  
14Jun2022  
01:32:00 PM MDT



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DENVER, CO USA 80202

## R30-BBD

Batch ID or Lot Number: <b>D2235</b>	Test: <b>Residual Solvents</b>	Reported: <b>15Jun2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000210293	Started: 14Jun2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 13Jun2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	83 - 1670	ND	
Butanes (Isobutane, n-Butane)	127 - 2542	ND	
Methanol	52 - 1035	ND	
Pentane	75 - 1495	ND	
Ethanol	75 - 1499	ND	
Acetone	80 - 1603	ND	
Isopropyl Alcohol	85 - 1691	ND	
Hexane	5 - 104	ND	
Ethyl Acetate	84 - 1675	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	82 - 1631	ND	
Toluene	15 - 304	ND	
Xylenes (m,p,o-Xylenes)	111 - 2221	ND	

## Final Approval



Jacob Miller  
15Jun2022  
10:55:00 AM MDT

PREPARED BY / DATE



Ryan Weems  
15Jun2022  
10:56:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/0f7c5b7e-773c-4bbf-bcd5-7166782b64e3>

### Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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