

Prepared for:  
**Nuleaf Naturals**

1550 Larimer St #964  
Denver, CO USA 80202

**D437**

Batch ID or Lot Number: <b>LB-O-60600</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 5
Reported: <b>18Sep2024</b>	Started: 18Sep2024	Received: 13Sep2024	

## Heavy Metals

Test ID: T000290079


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.53	ND	
Cadmium	0.05 - 4.67	ND	
Mercury	0.05 - 4.53	ND	
Lead	0.05 - 4.58	ND	

## Final Approval

 Judith Marquez  
18Sep2024  
02:56:00 PM MDT

PREPARED BY / DATE

 Sam Smith  
18Sep2024  
03:11:00 PM MDT

APPROVED BY / DATE

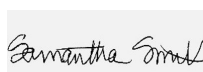
## Cannabinoids

Test ID: T000290076


Methods: TM14 (HPLC-DAD)

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.058	0.180	1.910	2.10	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.053	0.164	ND	ND	
Cannabidiol (CBD)	0.155	0.422	62.280	67.30	
Cannabidiolic Acid (CBDA)	0.159	0.433	1.940	2.10	
Cannabidivarin (CBDV)	0.037	0.100	0.180	0.20	
Cannabidivarinic Acid (CBDVA)	0.066	0.181	ND	ND	
Cannabigerol (CBG)	0.033	0.102	1.240	1.30	
Cannabigerolic Acid (CBGA)	0.138	0.426	ND	ND	
Cannabinol (CBN)	0.043	0.133	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.094	0.291	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.165	0.508	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.149	0.461	1.760	1.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.132	0.409	ND	ND	
Tetrahydrocannabivarin (THCV)	0.030	0.093	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.117	0.360	ND	ND	
<b>Total Cannabinoids</b>			<b>69.310</b>	<b>74.90</b>	
Total Potential THC			1.760	1.90	
Total Potential CBD			63.981	69.14	

## Final Approval

 Sam Smith  
19Sep2024  
02:23:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer  
19Sep2024  
02:24:00 PM MDT

APPROVED BY / DATE

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## Residual Solvents


Test ID: T000290080

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1828	ND	
Butanes (Isobutane, n-Butane)	183 - 3669	ND	
Methanol	59 - 1188	ND	
Pentane	94 - 1879	ND	
Ethanol	88 - 1762	ND	
Acetone	102 - 2043	ND	
Isopropyl Alcohol	99 - 1984	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	102 - 2049	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	101 - 2010	ND	
Toluene	18 - 358	ND	
Xylenes (m,p,o-Xylenes)	123 - 2451	ND	

## Final Approval

  
Sam Smith  
20Sep2024  
03:17:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
20Sep2024  
03:18:00 PM MDT  
APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000290078

Methods: TM25 (PCR) TM24, TM26,  
TM27 (Culture Plating)

	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



Brett Hudson  
20Sep2024  
03:48:00 PM MDT



Brianne Maillot  
20Sep2024  
03:52:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

## Mycotoxins

Test ID: T000290081

Methods: TM18 (UHPLC-QQQ  
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.49 - 123.12	ND	N/A
Aflatoxin B1	0.99 - 31.44	ND	
Aflatoxin B2	0.96 - 31.13	ND	
Aflatoxin G1	1.11 - 30.66	ND	
Aflatoxin G2	1.14 - 31.62	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval



Karen Winterheimer  
21Sep2024  
12:18:00 PM MDT



Sam Smith  
21Sep2024  
12:19:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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**Pesticides**


Test ID: T000290077


Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	388 - 2739	ND
Acephate	42 - 2678	ND
Acetamiprid	40 - 2667	ND
Azoxystrobin	47 - 2681	ND
Bifenazate	56 - 2683	ND
Boscalid	37 - 2716	ND
Carbaryl	41 - 2703	ND
Carbofuran	40 - 2718	ND
Chlorantraniliprole	47 - 2777	ND
Chlorpyrifos	59 - 2711	ND
Clofentezine	276 - 2710	ND
Diazinon	362 - 2679	ND
Dichlorvos	314 - 2694	ND
Dimethoate	39 - 2658	ND
E-Fenpyroximate	218 - 2872	ND
Etofenprox	41 - 2849	ND
Etoxazole	236 - 2752	ND
Fenoxycarb	54 - 2682	ND
Fipronil	14 - 2885	ND
Flonicamid	54 - 2673	ND
Fludioxonil	271 - 2620	ND
Hexythiazox	62 - 2720	ND
Imazalil	368 - 2686	ND
Imidacloprid	52 - 2719	ND
Kresoxim-methyl	62 - 2688	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	373 - 2680	ND
Metalaxyl	60 - 2684	ND
Methiocarb	46 - 2719	ND
Methomyl	40 - 2739	ND
MGK 264 1	142 - 1578	ND
MGK 264 2	168 - 1083	ND
Myclobutanil	32 - 2673	ND
Naled	49 - 2682	ND
Oxamyl	44 - 2698	ND
Paclobutrazol	44 - 2668	ND
Permethrin	306 - 2774	ND
Phosmet	66 - 2579	ND
Prophos	272 - 2651	ND
Propoxur	41 - 2712	ND
Pyridaben	267 - 2759	ND
Spinosad A	33 - 2086	ND
Spinosad D	77 - 653	ND
Spiromesifen	250 - 2811	ND
Spirotetramat	354 - 2741	ND
Spiroxamine 1	16 - 1028	ND
Spiroxamine 2	24 - 1597	ND
Tebuconazole	368 - 2685	ND
Thiacloprid	42 - 2721	ND
Thiamethoxam	45 - 2711	ND
Trifloxystrobin	41 - 2702	ND

**Final Approval**

  
Sam Smith  
25Sep2024  
10:22:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
25Sep2024  
10:25:00 AM MDT  
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/9a542281-4ce1-4ae1-b9e3-e674e49f6bab>

## Definitions

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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  $\times$  (0.877)) and Total CBD = CBD + (CBDa  $\times$  (0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa  $\times$  (0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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