

Prepared for:
Nuleaf Naturals
1550 Larimer St #964
Denver, CO USA 80202

D504

Batch ID or Lot Number: LB-O-60646	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 6
Reported: 03Feb2025	Started: 31Jan2025	Received: 30Jan2025	

Cannabinoids

Test ID: T000297891

Methods: TM14 (HPLC-DAD)

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.046	0.160	2.080	2.20	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.042	0.146	ND	ND	
Cannabidiol (CBD)	0.147	0.447	62.870	67.90	
Cannabidiolic Acid (CBDA)	0.151	0.459	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.035	0.106	0.300	0.30	
Cannabidivarinic Acid (CBDVA)	0.063	0.191	ND	ND	
Cannabigerol (CBG)	0.026	0.091	1.480	1.60	
Cannabigerolic Acid (CBGA)	0.110	0.380	ND	ND	
Cannabinol (CBN)	0.034	0.119	0.170	0.20	
Cannabinolic Acid (CBNA)	0.075	0.259	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.131	0.453	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.119	0.411	1.520	1.60	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.105	0.364	ND	ND	
Tetrahydrocannabivarin (THCV)	0.024	0.083	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.093	0.321	ND	ND	
Total Cannabinoids			68.420	73.80	
Total Potential THC			1.520	1.60	
Total Potential CBD			62.870	67.90	

Final Approval


Judith Marquez
03Feb2025
04:00:00 PM MST
PREPARED BY / DATE


Sam Smith
03Feb2025
04:06:00 PM MST
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000297893

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

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	<LLOQ	

Final Approval



Brett Hudson
02Feb2025
03:25:00 PM MST



Nora Langer
03Feb2025
12:45:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals

Test ID: T000297894

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.25	ND	
Cadmium	0.04 - 4.27	ND	
Mercury	0.05 - 5.31	ND	
Lead	0.04 - 4.44	ND	

Final Approval



Judith Marquez
04Feb2025
01:35:00 PM MST



Sam Smith
04Feb2025
01:38:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

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Mycotoxins

Test ID: T000297896

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.96 - 130.55	ND	N/A
Aflatoxin B1	1.11 - 33.05	ND	
Aflatoxin B2	1.14 - 32.48	ND	
Aflatoxin G1	1.14 - 33.05	ND	
Aflatoxin G2	1.17 - 33.49	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
06Feb2025
09:14:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
06Feb2025
09:16:00 AM MST
APPROVED BY / DATE

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Page 4 of 6

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Residual Solvents

Test ID: T000297895

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1833	ND	
Butanes (Isobutane, n-Butane)	182 - 3631	ND	
Methanol	57 - 1136	ND	
Pentane	94 - 1877	ND	
Ethanol	99 - 1983	ND	
Acetone	100 - 1994	ND	
Isopropyl Alcohol	104 - 2086	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	103 - 2055	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	98 - 1956	ND	
Toluene	18 - 363	ND	
Xylenes (m,p,o-Xylenes)	133 - 2668	ND	

Final Approval



Judith Marquez
06Feb2025
07:50:00 AM MST

PREPARED BY / DATE



Sam Smith
06Feb2025
07:56:00 AM MST

APPROVED BY / DATE

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Pesticides

Test ID: T000297892

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	381 - 2759	ND	Malathion	286 - 2743	ND
Acephate	34 - 2749	ND	Metalaxyl	38 - 2758	ND
Acetamiprid	42 - 2758	ND	Methiocarb	38 - 2785	ND
Azoxystrobin	42 - 2753	ND	Methomyl	40 - 2813	ND
Bifenazate	39 - 2790	ND	MGK 264 1	180 - 1624	ND
Boscalid	45 - 2734	ND	MGK 264 2	121 - 1060	ND
Carbaryl	39 - 2680	ND	Myclobutanil	38 - 2746	ND
Carbofuran	41 - 2706	ND	Naled	50 - 2647	ND
Chlorantraniliprole	40 - 2746	ND	Oxamyl	39 - 2825	ND
Chlorpyrifos	44 - 2701	ND	Paclobutrazol	44 - 2652	ND
Clofentezine	280 - 2730	ND	Permethrin	274 - 2782	ND
Diazinon	287 - 2743	ND	Phosmet	39 - 2602	ND
Dichlorvos	283 - 2801	ND	Prophos	286 - 2745	ND
Dimethoate	42 - 2774	ND	Propoxur	41 - 2694	ND
E-Fenpyroximate	267 - 2835	ND	Pyridaben	275 - 2837	ND
Etofenprox	43 - 2749	ND	Spinosad A	32 - 2062	ND
Etoxazole	272 - 2718	ND	Spinosad D	64 - 682	ND
Fenoxycarb	41 - 2722	ND	Spiromesifen	255 - 2820	ND
Fipronil	28 - 2719	ND	Spirotetramat	284 - 2765	ND
Flonicamid	44 - 2818	ND	Spiroxamine 1	14 - 1080	ND
Fludioxonil	279 - 2760	ND	Spiroxamine 2	23 - 1623	ND
Hexythiazox	40 - 2862	ND	Tebuconazole	308 - 2714	ND
Imazalil	282 - 2760	ND	Thiacloprid	42 - 2838	ND
Imidacloprid	39 - 2826	ND	Thiamethoxam	41 - 2821	ND
Kresoxim-methyl	40 - 2752	ND	Trifloxystrobin	45 - 2726	ND

Final Approval


Sam Smith
07Feb2025
10:36:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
07Feb2025
10:38:00 AM MST
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Page 6 of 6

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<https://results.botanacor.com/api/v1/coas/uuid/236780ec-0b32-4238-97f0-b49dbb7e4b82>

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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