

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

D407

Batch ID or Lot Number: LB-O-60525	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 5
Reported: 26Feb2024	Started: 26Feb2024	Received: 26Feb2024	

Cannabinoids - Colorado Compliance

Test ID: T000272363

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.063	0.208	2.222	2.40	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.058	0.190	ND	ND	
Cannabidiol (CBD)	0.185	0.543	62.444	67.43	
Cannabidiolic Acid (CBDA)	0.190	0.557	1.807	1.95	
Cannabidivarin (CBDV)	0.044	0.129	0.350	0.38	
Cannabidivarinic Acid (CBDVA)	0.079	0.233	ND	ND	
Cannabigerol (CBG)	0.036	0.118	1.047	1.13	
Cannabigerolic Acid (CBGA)	0.150	0.493	ND	ND	
Cannabinol (CBN)	0.047	0.154	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.102	0.336	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.179	0.587	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.162	0.533	1.865	2.01	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.144	0.472	ND	ND	
Tetrahydrocannabivarin (THCV)	0.033	0.107	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.127	0.417	ND	ND	
Total Cannabinoids			69.735	75.30	
Total Potential THC			1.865	2.01	
Total Potential CBD			64.029	69.14	

Final Approval



Karen Winternheimer
26Feb2024
01:26:00 PM MST

PREPARED BY / DATE



Sam Smith
26Feb2024
01:27:00 PM MST

APPROVED BY / DATE

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Pesticides

Test ID: T000272364

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	277 - 2691	ND
Acephate	42 - 2661	ND
Acetamiprid	41 - 2675	ND
Azoxystrobin	48 - 2688	ND
Bifenazate	44 - 2695	ND
Boscalid	46 - 2666	ND
Carbaryl	42 - 2691	ND
Carbofuran	44 - 2692	ND
Chlorantraniliprole	40 - 2671	ND
Chlorpyrifos	53 - 2685	ND
Clofentezine	273 - 2698	ND
Diazinon	290 - 2692	ND
Dichlorvos	290 - 2674	ND
Dimethoate	40 - 2684	ND
E-Fenpyroximate	258 - 2738	ND
Etofenprox	46 - 2699	ND
Etoxazole	289 - 2622	ND
Fenoxycarb	42 - 2696	ND
Fipronil	41 - 2821	ND
Flonicamid	50 - 2744	ND
Fludioxonil	303 - 2688	ND
Hexythiazox	42 - 2739	ND
Imazalil	275 - 2727	ND
Imidacloprid	43 - 2746	ND
Kresoxim-methyl	42 - 2730	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	290 - 2684	ND
Metalaxyl	43 - 2715	ND
Methiocarb	43 - 2701	ND
Methomyl	40 - 2717	ND
MGK 264 1	170 - 1633	ND
MGK 264 2	100 - 1073	ND
Myclobutanil	40 - 2682	ND
Naled	45 - 2651	ND
Oxamyl	41 - 2712	ND
Paclobutrazol	46 - 2710	ND
Permethrin	284 - 2754	ND
Phosmet	41 - 2562	ND
Prophos	291 - 2668	ND
Propoxur	42 - 2697	ND
Pyridaben	291 - 2708	ND
Spinosad A	32 - 2080	ND
Spinosad D	66 - 668	ND
Spiromesifen	261 - 2707	ND
Spirotetramat	288 - 2747	ND
Spiroxamine 1	16 - 1023	ND
Spiroxamine 2	25 - 1588	ND
Tebuconazole	287 - 2690	ND
Thiacloprid	42 - 2695	ND
Thiamethoxam	42 - 2725	ND
Trifloxystrobin	45 - 2706	ND

Final Approval



Karen Winterheimer
28Feb2024
10:34:00 AM MST

PREPARED BY / DATE



Sam Smith
28Feb2024
10:39:00 AM MST

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Heavy Metals - Colorado Compliance

Test ID: T000272366

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.29	ND	
Cadmium	0.04 - 4.33	ND	
Mercury	0.05 - 4.61	ND	
Lead	0.03 - 3.13	ND	

Final Approval


Sam Smith
29Feb2024
12:24:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
29Feb2024
02:22:00 PM MST
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Microbial Contaminants - Colorado Compliance

Test ID: T000272365

Methods: TM25 (qPCR) TM24, TM26,
TM27 (Culture Plating): Microbial
(Colorado Panel)

	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	

Final Approval


Brianne Maillot
29Feb2024
10:16:00 AM MST
PREPARED BY / DATE


Eden Thompson-Wright
29Feb2024
03:23:00 PM MST
APPROVED BY / DATE

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**Residual Solvents -
Colorado Compliance**

Test ID: T000272367
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	82 - 1640	ND	
Butanes (Isobutane, n-Butane)	165 - 3302	ND	
Methanol	61 - 1220	ND	
Pentane	87 - 1742	ND	
Ethanol	90 - 1792	ND	
Acetone	96 - 1925	ND	
Isopropyl Alcohol	100 - 2009	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	103 - 2068	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	91 - 1820	ND	
Toluene	18 - 370	ND	
Xylenes (m,p,o-Xylenes)	134 - 2675	ND	

Final Approval


Sam Smith
01Mar2024
08:11:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
01Mar2024
08:12:00 AM MST
APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000272368

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.24 - 123.66	ND	N/A
Aflatoxin B1	0.89 - 31.45	ND	
Aflatoxin B2	0.95 - 31.42	ND	
Aflatoxin G1	0.95 - 31.20	ND	
Aflatoxin G2	1.04 - 31.42	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Karen Winternheimer
03Mar2024
11:07:00 AM MST

PREPARED BY / DATE



Phillip Travisano
03Mar2024
11:09:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/8dddc26e-715f-4b5d-9248-3ab13d47798a>

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 * (0.877)) and Total CBD = CBD + (CBDa * (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 * (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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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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