

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202

NuLeaf Naturals CBD Oil

Batch ID or Lot Number: D417	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 5
Reported: 08May2024	Started: 30Apr2024	Received: 29Apr2024	

Cannabinoids - Colorado Compliance

Test ID: T000279066

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

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.059	0.191	1.865	2.01	Amendment to T000279066, issued on 02 May 2024, to correct sample name and batch ID. Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.054	0.175	ND	ND	
Cannabidiol (CBD)	0.177	0.503	60.232	65.05	
Cannabidiolic Acid (CBDA)	0.181	0.516	1.481	1.60	
Cannabidivarin (CBDV)	0.042	0.119	0.362	0.39	
Cannabidivarinic Acid (CBDVA)	0.076	0.215	ND	ND	
Cannabigerol (CBG)	0.033	0.108	1.348	1.46	
Cannabigerolic Acid (CBGA)	0.139	0.453	ND	ND	
Cannabinol (CBN)	0.043	0.141	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.095	0.309	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.166	0.540	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.151	0.490	1.607	1.74	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.133	0.434	ND	ND	
Tetrahydrocannabivarin (THCV)	0.030	0.099	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.118	0.383	ND	ND	
Total Cannabinoids			66.895	72.25	
Total Potential THC			1.607	1.74	
Total Potential CBD			61.531	66.45	

Final Approval



Karen Winternheimer
08May2024
04:01:00 PM MDT

PREPARED BY / DATE



Sam Smith
08May2024
05:05:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/c5ec058c-cd46-4ec6-bdc6-d753ee2f9c0e>

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.



Cert #4329.02

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**Heavy Metals -
Colorado Compliance**

Test ID: T000279069

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.62	ND	Amendment to T000279069, issued on 06 May 2024, to correct sample name and batch ID.
Cadmium	0.05 - 4.60	ND	
Mercury	0.05 - 4.72	ND	
Lead	0.01 - 0.62	ND	

Final Approval



Karen Winternheimer
08May2024
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Sam Smith
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**Microbial
Contaminants -
Colorado Compliance**

Test ID: T000279068
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 Amendment to T000279068, issued on 03 May 2024, to correct sample name and batch ID.
<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 08May2024 04:35:00 PM MDT		Brianne Maillot 08May2024 04:50:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

**Mycotoxins - Colorado
Compliance**

Test ID: T000279071
Methods: TM18 (UHPLC-QQQ
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.47 - 131.85	ND	Amendment to T000279071, issued on 06 May 2024, to correct sample name and batch ID. N/A
Aflatoxin B1	0.99 - 32.83	ND	
Aflatoxin B2	1.09 - 32.92	ND	
Aflatoxin G1	0.93 - 33.08	ND	
Aflatoxin G2	1.09 - 33.31	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

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	Karen Winternheimer 08May2024 04:22:00 PM MDT		Sam Smith 08May2024 04:53:00 PM MDT
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Pesticides

Test ID: T000279067

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	254 - 2693	ND
Acephate	40 - 2756	ND
Acetamiprid	37 - 2694	ND
Azoxystrobin	43 - 2687	ND
Bifenazate	41 - 2679	ND
Boscalid	37 - 2738	ND
Carbaryl	40 - 2716	ND
Carbofuran	40 - 2713	ND
Chlorantraniliprole	36 - 2729	ND
Chlorpyrifos	46 - 2784	ND
Clofentezine	281 - 2757	ND
Diazinon	274 - 2701	ND
Dichlorvos	264 - 2713	ND
Dimethoate	37 - 2714	ND
E-Fenpyroximate	257 - 2806	ND
Etofenprox	41 - 2768	ND
Etoxazole	286 - 2697	ND
Fenoxycarb	43 - 2663	ND
Fipronil	56 - 2801	ND
Flonicamid	40 - 2738	ND
Fludioxonil	313 - 2754	ND
Hexythiazox	42 - 2800	ND
Imazalil	276 - 2730	ND
Imidacloprid	43 - 2767	ND
Kresoxim-methyl	41 - 2741	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	279 - 2683	ND
Metalaxyl	40 - 2689	ND
Methiocarb	41 - 2740	ND
Methomyl	37 - 2756	ND
MGK 264 1	163 - 1640	ND
MGK 264 2	106 - 1093	ND
Myclobutanil	42 - 2774	ND
Naled	45 - 2668	ND
Oxamyl	38 - 2750	ND
Paclobutrazol	40 - 2719	ND
Permethrin	270 - 2774	ND
Phosmet	40 - 2557	ND
Prophos	288 - 2747	ND
Propoxur	41 - 2721	ND
Pyridaben	284 - 2801	ND
Spinosad A	32 - 2096	ND
Spinosad D	68 - 672	ND
Spiromesifen	285 - 2747	ND
Spirotetramat	291 - 2781	ND
Spiroxamine 1	15 - 1028	ND
Spiroxamine 2	23 - 1621	ND
Tebuconazole	274 - 2683	ND
Thiacloprid	40 - 2712	ND
Thiamethoxam	39 - 2752	ND
Trifloxystrobin	42 - 2740	ND

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Karen Winterheimer
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Sam Smith
08May2024
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**Residual Solvents -
Colorado Compliance**

Test ID: T000279070

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	77 - 1532	ND	Amendment to T000279070, issued on 03 may 2024, to correct sample name and batch ID.
Butanes (Isobutane, n-Butane)	160 - 3207	ND	
Methanol	63 - 1253	ND	
Pentane	86 - 1712	ND	
Ethanol	91 - 1824	ND	
Acetone	101 - 2017	ND	
Isopropyl Alcohol	107 - 2147	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	104 - 2075	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	96 - 1922	ND	
Toluene	19 - 371	ND	
Xylenes (m,p,o-Xylenes)	133 - 2656	ND	

Final Approval



Karen Winternheimer
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Sam Smith
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