

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

Bulk Formulation D9 2.5mg/mL

Batch ID or Lot Number: 9514	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 6
Reported: 07Apr2025	Started: 04Apr2025	Received: 03Apr2025	

Microbial Contaminants - Colorado Compliance

Test ID: T000302634

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial

(Colorado Panel)

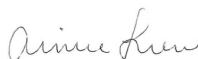
	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Nora Langer
07Apr2025
03:08:00 PM MDT

PREPARED BY / DATE



Aimee Lowe
07Apr2025
04:59:00 PM MDT

APPROVED BY / DATE

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04Apr2025

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Residual Solvents - Colorado Compliance

Test ID: T000302636

Methods: TM04 (GC-MS): Residual

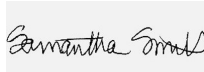
Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	85 - 1708	ND	
Butanes (Isobutane, n-Butane)	168 - 3352	ND	
Methanol	63 - 1269	ND	
Pentane	86 - 1714	ND	
Ethanol	91 - 1827	ND	
Acetone	91 - 1825	ND	
Isopropyl Alcohol	95 - 1896	ND	
Hexane	6 - 111	ND	
Ethyl Acetate	94 - 1879	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	91 - 1820	ND	
Toluene	17 - 342	ND	
Xylenes (m,p,o-Xylenes)	125 - 2495	ND	

Final Approval



Judith Marquez
08Apr2025
01:13:00 PM MDT

PREPARED BY / DATE



Sam Smith
08Apr2025
01:17:00 PM MDT

APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000302637

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.49 - 135.54	ND	N/A
Aflatoxin B1	1.09 - 33.91	ND	
Aflatoxin B2	1.06 - 33.81	ND	
Aflatoxin G1	1.16 - 34.34	ND	
Aflatoxin G2	1.35 - 34.17	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Judith Marquez
09Apr2025
07:33:00 AM MDT

PREPARED BY / DATE



Sam Smith
09Apr2025
07:39:00 AM MDT

APPROVED BY / DATE

Prepared for:

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Cannabinoids - Colorado Compliance

Test ID: T000302632

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.043	0.169	0.517	0.56	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.039	0.154	ND	ND	
Cannabidiol (CBD)	0.173	0.461	0.517	0.56	
Cannabidiolic Acid (CBDA)	0.177	0.473	ND	ND	
Cannabidivarin (CBDV)	0.041	0.109	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.074	0.197	ND	ND	
Cannabigerol (CBG)	0.024	0.096	0.498	0.54	
Cannabigerolic Acid (CBGA)	0.102	0.400	ND	ND	
Cannabinol (CBN)	0.032	0.125	0.489	0.53	
Cannabinolic Acid (CBNA)	0.069	0.273	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.121	0.477	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.110	0.433	2.340	2.54	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.098	0.384	ND	ND	
Tetrahydrocannabivarin (THCV)	0.022	0.087	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.086	0.339	ND	ND	
Total Cannabinoids			4.361	4.73	
Total Potential THC			2.340	2.54	
Total Potential CBD			0.517	0.56	

Final Approval


Danielle Alm
09Apr2025
09:18:00 AM MDT
PREPARED BY / DATE


Sam Smith
09Apr2025
09:21:00 AM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000302635

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.00	ND	
Cadmium	0.04 - 4.33	ND	
Mercury	0.04 - 4.27	ND	
Lead	0.04 - 4.35	ND	

Final Approval


Judith Marquez
10Apr2025
11:51:00 AM MDT
PREPARED BY / DATE


Sam Smith
10Apr2025
11:53:00 AM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000302633

Methods: TM17

(LC-QQ LC MS/MS)

Dynamic Range (ppb)

Result (ppb)

Abamectin	455 - 2829	ND
Acephate	39 - 2797	ND
Acetamiprid	41 - 2773	ND
Azoxystrobin	44 - 2671	ND
Bifenazate	42 - 2660	ND
Boscalid	42 - 2694	ND
Carbaryl	42 - 2722	ND
Carbofuran	41 - 2694	ND
Chlorantraniliprole	36 - 2737	ND
Chlorpyrifos	34 - 2723	ND
Clofentezine	287 - 2725	ND
Diazinon	276 - 2701	ND
Dichlorvos	240 - 2795	ND
Dimethoate	38 - 2762	ND
E-Fenpyroximate	266 - 2845	ND
Etofenprox	41 - 2786	ND
Etoxazole	273 - 2757	ND
Fenoxycarb	43 - 2661	ND
Fipronil	46 - 2741	ND
Flonicamid	50 - 2832	ND
Fludioxonil	273 - 2740	ND
Hexythiazox	40 - 2846	ND
Imazalil	272 - 2705	ND
Imidacloprid	43 - 2775	ND
Kresoxim-methyl	42 - 2729	ND

Dynamic Range (ppb)

Result (ppb)

Malathion	282 - 2672	ND
Metalaxyl	37 - 2694	ND
Methiocarb	40 - 2759	ND
Methomyl	40 - 2814	ND
MGK 264 1	158 - 1641	ND
MGK 264 2	106 - 1068	ND
Myclobutanil	44 - 2697	ND
Naled	42 - 2706	ND
Oxamyl	42 - 2802	ND
Paclobutrazol	42 - 2681	ND
Permethrin	260 - 2804	ND
Phosmet	35 - 2559	ND
Prophos	270 - 2810	ND
Propoxur	40 - 2725	ND
Pyridaben	282 - 2855	ND
Spinosad A	32 - 2086	ND
Spinosad D	64 - 683	ND
Spiromesifen	263 - 2814	ND
Spirotetramat	288 - 2733	ND
Spiroxamine 1	15 - 1044	ND
Spiroxamine 2	23 - 1627	ND
Tebuconazole	291 - 2669	ND
Thiacloprid	44 - 2784	ND
Thiamethoxam	42 - 2782	ND
Trifloxystrobin	44 - 2720	ND

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Judith Marquez
15Apr2025
08:36:00 AM MDT

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Sam Smith
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08:39:00 AM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/13a594a4-49da-4903-b814-5144ec2bd329>

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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