

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964

DENVER, CO USA 80202

Bulk Formulation D9 2.5mg/mL

Batch ID or Lot Number: 9503	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 6
Reported: 21Jan2025	Started: 17Jan2025	Received: 17Jan2025	

**Cannabinoids - Colorado
Compliance**

Test ID: T000297208

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

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.062	0.189	0.523	0.57	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.056	0.173	ND	ND	
Cannabidiol (CBD)	0.190	0.535	0.699	0.76	
Cannabidiolic Acid (CBDA)	0.195	0.549	ND	ND	
Cannabidivarin (CBDV)	0.045	0.127	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.081	0.229	ND	ND	
Cannabigerol (CBG)	0.035	0.108	0.468	0.51	
Cannabigerolic Acid (CBGA)	0.146	0.450	ND	ND	
Cannabinol (CBN)	0.046	0.140	0.540	0.59	
Cannabinolic Acid (CBNA)	0.100	0.307	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.174	0.536	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.158	0.486	2.479	2.69	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.140	0.431	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.098	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.123	0.380	ND	ND	
Total Cannabinoids			4.709	5.12	
Total Potential THC			2.479	2.69	
Total Potential CBD			0.699	0.76	

Final Approval


Judith Marquez
21Jan2025
11:47:00 AM MST
PREPARED BY / DATE


Sam Smith
21Jan2025
11:52:00 AM MST
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000297212

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	84 - 1678	ND	
Butanes (Isobutane, n-Butane)	168 - 3353	ND	
Methanol	62 - 1247	ND	
Pentane	87 - 1740	ND	
Ethanol	93 - 1857	ND	
Acetone	97 - 1950	ND	
Isopropyl Alcohol	104 - 2072	ND	
Hexane	6 - 120	ND	
Ethyl Acetate	101 - 2025	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	95 - 1904	ND	
Toluene	18 - 364	ND	
Xylenes (m,p,o-Xylenes)	131 - 2615	ND	

Final Approval



Judith Marquez
21Jan2025
09:37:00 AM MST

PREPARED BY / DATE



Sam Smith
21Jan2025
09:40:00 AM MST

APPROVED BY / DATE

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Microbial

Contaminants -

Colorado Compliance

Test ID: T000297210

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	<LLOQ	
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
21Jan2025
03:01:00 PM MST



Brett Hudson
22Jan2025
05:03:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals -

Colorado Compliance

Test ID: T000297211

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.53	ND	
Cadmium	0.04 - 4.05	ND	
Mercury	0.04 - 4.30	ND	
Lead	0.04 - 4.07	ND	

Final Approval



Judith Marquez
22Jan2025
01:29:00 PM MST



Sam Smith
22Jan2025
01:33:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

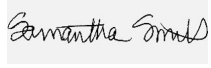
Test ID: T000297213

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.88 - 137.48	ND	N/A
Aflatoxin B1	1.00 - 33.86	ND	
Aflatoxin B2	0.94 - 33.57	ND	
Aflatoxin G1	1.00 - 33.80	ND	
Aflatoxin G2	1.20 - 33.83	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
29Jan2025
10:15:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
29Jan2025
10:18:00 AM MST
APPROVED BY / DATE

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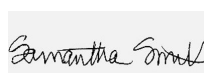
Pesticides

Test ID: T000297209

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	338 - 2769	ND		Malathion	267 - 2642	ND
Acephate	4 - 2648	ND		Metalaxyl	44 - 2688	ND
Acetamiprid	46 - 2642	ND		Methiocarb	44 - 2698	ND
Azoxystrobin	47 - 2678	ND		Methomyl	43 - 2706	ND
Bifenazate	43 - 2591	ND		MGK 264 1	171 - 1609	ND
Boscalid	33 - 2675	ND		MGK 264 2	113 - 1057	ND
Carbaryl	44 - 2730	ND		Myclobutanil	45 - 2677	ND
Carbofuran	42 - 2710	ND		Naled	49 - 2697	ND
Chlorantraniliprole	50 - 2688	ND		Oxamyl	45 - 2685	ND
Chlorpyrifos	37 - 2715	ND		Paclobutrazol	46 - 2721	ND
Clofentezine	281 - 2735	ND		Permethrin	300 - 2830	ND
Diazinon	287 - 2672	ND		Phosmet	43 - 2498	ND
Dichlorvos	287 - 2674	ND		Prophos	285 - 2704	ND
Dimethoate	44 - 2662	ND		Propoxur	41 - 2723	ND
E-Fenpyroximate	234 - 2832	ND		Pyridaben	289 - 2798	ND
Etofenprox	46 - 2786	ND		Spinosad A	37 - 2094	ND
Etoxazole	279 - 2694	ND		Spinosad D	68 - 689	ND
Fenoxycarb	46 - 2705	ND		Spiromesifen	290 - 2785	ND
Fipronil	34 - 2675	ND		Spirotetramat	270 - 2716	ND
Flonicamid	51 - 2649	ND		Spiroxamine 1	16 - 1029	ND
Fludioxonil	298 - 2633	ND		Spiroxamine 2	28 - 1590	ND
Hexythiazox	46 - 2776	ND		Tebuconazole	290 - 2692	ND
Imazalil	263 - 2713	ND		Thiacloprid	45 - 2663	ND
Imidacloprid	46 - 2694	ND		Thiamethoxam	43 - 2653	ND
Kresoxim-methyl	44 - 2718	ND		Trifloxystrobin	48 - 2734	ND

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Sam Smith
29Jan2025
11:09:00 AM MST
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Karen Winternheimer
29Jan2025
11:11:00 AM MST
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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.

<https://results.botanacor.com/api/v1/coas/uuid/d2f34805-c6d2-4779-abcc-dad04dfee0c>



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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