SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
NULEAF NATURALS
1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals D9 Chill Formulation

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
9C531H333	Various	Finished Product	
Reported:	Started:	Received:	
28Aug2025	27Aug2025	27Aug2025	

Residual Solvents

Test ID: T000310989
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	81 - 1612	ND	
Butanes (Isobutane, n-Butane)	156 - 3129	ND	
Methanol	62 - 1247	ND	
Pentane	83 - 1652	ND	
Ethanol	87 - 1749	ND	
Acetone	97 - 1949	ND	
Isopropyl Alcohol	102 - 2031	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	100 - 2005	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	91 - 1828	ND	
Toluene	18 - 356	ND	
Xylenes (m,p,o-Xylenes)	126 - 2522	ND	

Final Approval


Judith Marquez
28Aug2025
03:07:00 PM MDT
PREPARED BY / DATE


Sam Smith
28Aug2025
03:08:00 PM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000310988
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.66	ND	
Cadmium	0.04 - 4.44	ND	
Mercury	0.04 - 4.43	ND	
Lead	0.04 - 4.41	ND	

Final Approval


Judith Marquez
29Aug2025
06:01:00 PM MDT
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Sam Smith
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Mycotoxins - Colorado Compliance

Test ID: T000310990
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	2.32 - 131.20	ND	N/A
Aflatoxin B1	1.04 - 33.93	ND	
Aflatoxin B2	1.08 - 33.80	ND	
Aflatoxin G1	1.21 - 34.10	ND	
Aflatoxin G2	1.99 - 33.51	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Judith Marquez
02Sep2025
10:22:00 AM MDT
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Sam Smith
02Sep2025
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Microbial Contaminants - Colorado Compliance

Test ID: T000310987
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	$1.0x10^2$ - $1.5x10^4$	<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

Theresa Goergen
31Aug2025
02:56:00 PM MDT
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Aimee Lowe
02Sep2025
10:39:00 AM MDT
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Cannabinoids

Test ID: T000310985
Methods: TM14 (HPLC-DAD): Potency - Full Spectrum Analysis, 0.3% THC

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.053	0.225	1.377	1.50	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.048	0.206	ND	ND	
Cannabidiol (CBD)	0.207	0.527	45.254	49.19	
Cannabidiolic Acid (CBDA)	0.212	0.540	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.049	0.125	0.418	0.45	
Cannabidivarinic Acid (CBDVA)	0.089	0.225	ND	ND	
Cannabigerol (CBG)	0.030	0.128	1.379	1.50	
Cannabigerolic Acid (CBGA)	0.125	0.533	ND	ND	
Cannabinol (CBN)	0.039	0.166	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.085	0.364	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.149	0.635	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.135	0.577	2.705	2.94	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.120	0.511	ND	ND	
Tetrahydrocannabivarin (THCV)	0.027	0.116	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.106	0.451	ND	ND	
Total Cannabinoids			**51.133**	**55.58**	
Total Potential THC			2.705	2.94	
Total Potential CBD			45.254	49.19	

Final Approval

Judith Marquez
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Sam Smith
02Sep2025
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Pesticides

Test ID: T000310986
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	386 - 2641	ND	Malathion	284 - 2702	ND
Acephate	40 - 2786	ND	Metalaxyl	46 - 2686	ND
Acetamiprid	42 - 2740	ND	Methiocarb	41 - 2700	ND
Azoxystrobin	46 - 2702	ND	Methomyl	43 - 2818	ND
Bifenazate	43 - 2661	ND	MGK 264 1	144 - 1653	ND
Boscalid	43 - 2752	ND	MGK 264 2	118 - 1050	ND
Carbaryl	42 - 2742	ND	Myclobutanil	46 - 2719	ND
Carbofuran	45 - 2739	ND	Naled	46 - 2741	ND
Chlorantraniliprole	50 - 2737	ND	Oxamyl	43 - 2776	ND
Chlorpyrifos	51 - 2739	ND	Paclobutrazol	49 - 2719	ND
Clofentezine	296 - 2770	ND	Permethrin	299 - 2736	ND
Diazinon	287 - 2699	ND	Phosmet	47 - 2693	ND
Dichlorvos	272 - 2773	ND	Prophos	275 - 2733	ND
Dimethoate	42 - 2740	ND	Propoxur	46 - 2745	ND
E-Fenpyroximate	276 - 2742	ND	Pyridaben	284 - 2721	ND
Etofenprox	44 - 2720	ND	Spinosad A	32 - 2042	ND
Etoxazole	292 - 2720	ND	Spinosad D	74 - 716	ND
Fenoxycarb	5 - 2728	ND	Spiromesifen	285 - 2737	ND
Fipronil	57 - 2703	ND	Spirotetramat	273 - 2709	ND
Flonicamid	55 - 2787	ND	Spiroxamine 1	20 - 1220	ND
Fludioxonil	265 - 2716	ND	Spiroxamine 2	23 - 1484	ND
Hexythiazox	44 - 2760	ND	Tebuconazole	307 - 2696	ND
Imazalil	270 - 2724	ND	Thiacloprid	44 - 2755	ND
Imidacloprid	44 - 2784	ND	Thiamethoxam	44 - 2769	ND
Kresoxim-methyl	45 - 2688	ND	Trifloxystrobin	46 - 2746	ND

Final Approval

Judith Marquez
05Sep2025
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Sam Smith
05Sep2025
08:38:00 AM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/5acd6ca2-cb96-4b18-8baf-005071d54825

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

Cert #4329.02
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