



Certificate of Analysis

PASSED



Harvest/Lot ID: 3205-H5a / 533F306-0777 **Lab ID:** DE50903010-002
Batch #: CO HEMP **Ordered:** 08/26/25
Production Method: Other **Sample Date:** 09/03/25
Total Amount: 29000 gram **Sample Size:** 10 gram
Retail Product Size: 30 ml **Completed:** 09/07/25
Retail Serving Size: 30 ml
Density: 0.92 g/mL
Servings: 1
Metric Package #:
 1A4000B00010D25000009345
Metric Source Package #: NA

NuLeaf Naturals LLC.

3400 C S Federal Blvd.
Sheridan, CO, 80110, US
nuleafnaturals.com
License # : 405R-00011



SAFETY RESULTS

MISC.

								
Pesticide	Heavy Metals	Microbial	Mycotoxins	Solvents	Filtration/Foreign Material	Water Activity	Moisture Content	Terpenes
PASSED	PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED

 **Pesticide** **PASSED**

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
AZADIRACTIN	ppb	1.198	3.594	500	PASS	ND	
PIPERONYL BUTOXIDE	ppb	0.328	0.985	1250	PASS	ND	
PYRETHRINS	ppb	0.181	0.543	50	PASS	ND	
ACEPHATE	ppb	0.276	0.827	20	PASS	ND	
ACEQUINOCYL	ppb	0.271	0.812	30	PASS	ND	
ACETAMIPRID	ppb	0.225	0.675	100	PASS	ND	
ALDICARB	ppb	0.421	1.262	1000	PASS	ND	
ALLETHRIN	ppb	0.360	1.080	200	PASS	ND	
ATRAZINE	ppb	1.064	3.192	25	PASS	ND	
ABAMECTIN	ppb	0.014	0.042	100	PASS	ND	
AZOXYSTROBIN	ppb	0.112	0.337	20	PASS	ND	
BENZOVINDIFLUPYR	ppb	0.365	1.095	20	PASS	ND	
BIFENAZATE	ppb	0.329	0.986	20	PASS	ND	
BIFENTHRIN	ppb	0.347	1.041	1000	PASS	ND	
BOSCALID	ppb	0.306	0.917	20	PASS	ND	
BUPROFEZIN	ppb	0.300	0.900	20	PASS	ND	
CARBARYL	ppb	0.317	0.950	50	PASS	ND	
CARBOFURAN	ppb	0.332	0.995	20	PASS	ND	
CHLORANTRANILIPROLE	ppb	0.463	1.389	20	PASS	ND	
CHLORPYRIFOS	ppb	0.289	0.867	40	PASS	ND	
CLOFENTEZINE	ppb	0.350	1.052	20	PASS	ND	
CLOTHIANIDIN	ppb	0.537	1.611	50	PASS	ND	
COUMAPHOS	ppb	0.253	0.759	20	PASS	ND	
CYANTRANILIPROLE	ppb	0.541	1.623	20	PASS	ND	
CYFLUTHRIN	ppb	0.607	1.822	200	PASS	ND	
CYHALOTHRIN-LAMBDA	ppb	1.860	5.580	250	PASS	ND	
CYPERMETHRIN	ppb	0.306	0.919	300	PASS	ND	
CYPRODINIL	ppb	0.438	1.313	250	PASS	ND	
DAMINOZIDE	ppb	4.991	14.972	100	PASS	ND	
DELTAMETHRIN	ppb	0.843	2.529	500	PASS	ND	
DIAZINON	ppb	0.205	0.617	20	PASS	ND	

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William Stephens
Lab Director



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Accreditation #
4331.01

Signature
09/07/25
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Batch #: CO HEMP
Harvest/Lot ID: 3205-H5a / 533F306-0777
Seed to sale: 1A4000B00010D25000009345

Ordered: 08/26/25
Sampled: 09/03/25
Completed: 09/07/25

PASSED



Pesticide

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
DICHLORVOS	ppb	0.989	2.966	100	PASS	ND	
DIMETHOATE	ppb	0.259	0.776	20	PASS	ND	
DIMETHOMORPH	ppb	0.101	0.304	50	PASS	ND	
DINOTEFURAN	ppb	0.400	1.201	100	PASS	ND	
DIURON	ppb	0.792	2.377	125	PASS	ND	
DODEMORPH	ppb	0.271	0.820	50	PASS	ND	
ETHOPROPHOS	ppb	0.474	1.421	20	PASS	ND	
ETOFENPROX	ppb	0.411	1.234	50	PASS	ND	
ETOXAZOLE	ppb	0.184	0.552	20	PASS	ND	
FENHEXAMID	ppb	0.945	2.835	125	PASS	ND	
FENOXYCARB	ppb	0.432	1.295	20	PASS	ND	
FENPYROXIMATE	ppb	0.310	0.929	20	PASS	ND	
FENSULFOTHION	ppb	0.368	1.105	20	PASS	ND	
FIPRONIL	ppb	0.271	0.812	60	PASS	ND	
FLONICAMID	ppb	0.349	1.048	50	PASS	ND	
FLUDIOXONIL	ppb	0.263	0.789	20	PASS	ND	
FLUOPYRAM	ppb	0.382	1.145	20	PASS	ND	
HEXYTHIAZOX	ppb	0.198	0.593	10	PASS	ND	
IMAZALIL	ppb	0.402	1.206	50	PASS	ND	
IMIDACLOPRID	ppb	0.265	0.795	20	PASS	ND	
KRESOXIM-METHYL	ppb	0.511	1.534	20	PASS	ND	
MALATHION	ppb	0.304	0.911	20	PASS	ND	
METALAXYL	ppb	0.276	0.827	20	PASS	ND	
METHIOCARB	ppb	2.311	6.931	20	PASS	ND	
METHOMYL	ppb	0.379	1.137	50	PASS	ND	
METHOPRENE	ppb	0.489	1.468	2000	PASS	ND	
MEVINPHOS	ppb	0.043	0.130	50	PASS	ND	
MGK-264	ppb	0.144	0.431	50	PASS	ND	
MYCLOBUTANIL	ppb	0.442	1.325	20	PASS	ND	
NALED	ppb	0.430	1.292	100	PASS	ND	
NOVALURON	ppb	0.216	0.649	50	PASS	ND	
OTHER PESTICIDES	ppb	0.100	1.000	100	PASS	ND	
OXAMYL	ppb	0.376	1.128	3000	PASS	ND	
PACLOBUTRAZOL	ppb	1.423	4.268	20	PASS	ND	
PERMETHRINS	ppb	0.211	0.633	500	PASS	ND	
PHENOTHRIN	ppb	0.306	0.918	50	PASS	ND	
PHOSMET	ppb	0.248	0.745	20	PASS	ND	
PIRIMICARB	ppb	0.346	1.037	20	PASS	ND	
PRALLETHRIN	ppb	0.662	1.987	50	PASS	ND	
PROPICONAZOLE	ppb	0.566	1.697	100	PASS	ND	
PROPOXUR	ppb	0.783	2.350	20	PASS	ND	
PRYRACLOSTROBIN	ppb	0.238	0.714	20	PASS	ND	
PYRIDABEN	ppb	0.298	0.894	50	PASS	ND	
PYRIPROXYFEN	ppb	0.855	2.565	10	PASS	ND	
RESMETHRIN	ppb	0.201	0.602	100	PASS	ND	
SPINETORAM	ppb	0.118	0.353	20	PASS	ND	
SPINOSADS	ppb	0.054	0.163	100	PASS	ND	
SPIRODICLOFEN	ppb	0.183	0.549	250	PASS	ND	
SPIROMESIFEN	ppb	0.291	0.874	3000	PASS	ND	
SPIROTETRAMAT	ppb	0.427	1.280	20	PASS	ND	
SPIROXAMINE	ppb	0.374	1.124	100	PASS	ND	
TEBUCONAZOLE	ppb	0.330	0.991	50	PASS	ND	
TEBUFENOZIDE	ppb	0.215	0.646	20	PASS	ND	

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Seed to sale: 1A4000B00010D25000009345

Ordered: 08/26/25
Sampled: 09/03/25
Completed: 09/07/25

PASSED



Pesticide

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
TEFLUBENZURON	ppb	0.444	1.331	50	PASS	ND	
TETRACHLORVINPHOS	ppb	0.133	0.399	20	PASS	ND	
TETRAMETHRIN	ppb	0.238	0.714	100	PASS	ND	
THIABENDAZOLE	ppb	0.806	2.417	20	PASS	ND	
THIACLOPRID	ppb	0.400	1.200	20	PASS	ND	
THIAMETHOXAM	ppb	0.323	0.970	20	PASS	ND	
THIOPHANATE-METHYL	ppb	1.241	3.724	50	PASS	ND	
TRIFLOXYSTROBIN	ppb	0.194	0.574	20	PASS	ND	
CHLORPHENAPYR	ppb	3.000	10.000	50	PASS	ND	
ENDOSULFAN SULFATE	ppb	3.000	10.000	50	PASS	ND	
ENDOSULFAN-ALPHA	ppb	3.000	10.000	200	PASS	ND	
ENDOSULFAN-BETA	ppb	3.000	10.000	50	PASS	ND	
ETRIDIAZOLE	ppb	3.000	10.000	30	PASS	ND	
FENVALERATE	ppb	3.000	10.000	100	PASS	ND	
FENTHION	ppb	3.000	10.000	20	PASS	ND	
IPRODIONE	ppb	3.000	10.000	1000	PASS	ND	
KINOPRENE	ppb	3.000	10.000	500	PASS	ND	
PARATHION-METHYL	ppb	3.000	10.000	50	PASS	ND	
QUINTOZENE	ppb	3.000	10.000	20	PASS	ND	

Analyzed by: 4054, 2950, 1642, 2080	Weight: 0.187g	Extraction date: 09/03/25 18:40:45	Extracted by: 4054
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Analysis Method : SOP.T.30.105.CO, SOP.T.40.105.CO
Analytical Batch : DE010901PES
Instrument Used : Sciex 7500 Qtrap "Hades" - Pesticides **Batch Date :** 09/03/25 15:22:34
Analyzed Date : 09/05/25 10:56:14

Dilution : 20
Reagent : N/A
Consumables : N/A
Pipette : N/A

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5).

Analyzed by: 4054, 1642, 8, 2950, 2080	Weight: 0.187g	Extraction date: 09/03/25 18:40:45	Extracted by: 4054
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Analysis Method : SOP.T.30.105.CO, SOP.T.40.105.CO
Analytical Batch : DE010904VOL
Instrument Used : Shimadzu GCMS "GZMA" **Batch Date :** 09/03/25 18:41:03
Analyzed Date : 09/04/25 12:06:46

Dilution : 20
Reagent : N/A
Consumables : N/A
Pipette : N/A

Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.



Residual Solvents

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
PROPANE	ppm	15.152	50.000	1000	PASS	ND	
BUTANES	ppm	15.152	50.000	1000	PASS	ND	
METHANOL	ppm	15.152	50.000	600	PASS	ND	
PENTANES	ppm	18.182	60.000	1000	PASS	ND	
ETHANOL	ppm	15.152	50.000	1000000	PASS	ND	

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Ordered: 08/26/25
Sampled: 09/03/25
Completed: 09/07/25

PASSED



Residual Solvents

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
ACETONE	ppm	15.152	50.000	1000	PASS	ND	
2-PROPANOL	ppm	15.152	50.000	1000	PASS	<50.000	
HEXANES	ppm	6.061	20.000	60	PASS	ND	
ETHYL ACETATE	ppm	15.152	50.000	1000	PASS	ND	
BENZENE	ppm	0.303	1.000	2	PASS	ND	
HEPTANE	ppm	19.697	65.000	1000	PASS	ND	
TOLUENE	ppm	7.576	25.000	180	PASS	ND	
XYLENES	ppm	7.576	25.000	430	PASS	ND	
OTHER SOLVENT	ppm	10.000	10.000	1000	PASS	ND	

Analyzed by: 3417, 8, 2080	Weight: 0.127g	Extraction date: 09/03/25 17:05:04	Extracted by: 3460
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Analysis Method : SOP.T.40.041.CO
Analytical Batch : DE010900SOL
Instrument Used : GC 5890 "Lizzie"
Analyzed Date : 09/04/25 15:31:37

Batch Date : 09/03/25 15:15:54

Dilution : 1
Reagent : N/A
Consumables : N/A
Pipette : N/A

Residual solvents screening is performed using GC which can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.



Microbial

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
TOTAL YEAST AND MOLD	cfu/g	100	100	10000	PASS	ND	
SHIGA-TOXIN PRODUCING ESCHERICHIA COLI (STEC)					PASS	Not Present	
SALMONELLA SPECIES					PASS	Not Present	
TOTAL AEROBIC	cfu/g	10	10	10000	PASS	ND	
TOTAL COLIFORM	cfu/g	10	10	100	PASS	ND	

Analyzed by: 1473, 2, 2080	Weight: 1.21g	Extraction date: 09/03/25 15:55:25	Extracted by: 3665
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Analysis Method : SOP.T.40.057.CO; SOP.T.40.209.CO
Analytical Batch : DE010892MIC
Instrument Used : Microbial - Full Panel
Analyzed Date : 09/07/25 12:38:34

Batch Date : 09/03/25 08:16:05

Dilution : N/A
Reagent : 081525.R11; 073025.R17; 081525.R04; 082025.R02; 081225.56; 082525.01; 052325.15; 111924.06; 073025.01; 070825.09; 060725.02; 041525.05
Consumables : 11924Ch01; 1; 2; 41171-135C4-135A; 62078-511C6-511; 25A5550; 3; 00119; 01859
Pipette : MIC EXT - L47149J_P1000; MIC EXT - MV21601_P100; MIC TYM - MU03680_P1000; MIC PCR - M32141C_P100; 20C40454_Repeater; 22G22702_Repeater; MIC TYM - MU06201_P100; MIC PCR - N65633K_P200; MIC EXT - K94440L_P20; MIC - 20E73249_Dispensette 5-50mL; MIC EXT - J46789J_P200; MIC PCR - J55715J_P20; MIC TYM - M30687C_P10; MIC PCR - O52710K_P10; MIC TYM - N15637K_P100; MIC PCR - O34081K_P1000; MIC TYM - 20B29164_P1000

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.



Mycotoxins

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
AFLATOXINS	ppb	0.0900	0.2710	20	PASS	ND	
AFLATOXIN B1	ppb	1.3270	3.9810	20	PASS	ND	
AFLATOXIN B2	ppb	0.0900	0.2710	20	PASS	ND	

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Mycotoxins

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
AFLATOXIN G1	ppb	0.1800	0.5410	20	PASS	ND	
AFLATOXIN G2	ppb	0.3030	0.9120	20	PASS	ND	
OCHRATOXIN A+	ppb	0.0490	0.1470	20	PASS	ND	

Analyzed by: 1642, 2950, 2, 2080	Weight: NA	Extraction date: N/A	Extracted by: N/A
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Analysis Method : SOP-060 (R5)
Analytical Batch : DE010899MYC
Instrument Used : N/A
Analyzed Date : 09/05/25 09:48:03

Batch Date : 09/03/25 13:16:57

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Aflatoxins B1, B2, G1, G2, and Ochratoxin A testing using LC-MS via SOP-060 (R5). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be < 20µg/Kg. Ochratoxins must be < 5µg/Kg.



Heavy Metals

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
ARSENIC	ppm	0.0048	0.0144	1.5	PASS	ND	
CADMIUM	ppm	0.0016	0.0049	0.5	PASS	ND	
MERCURY	ppm	0.0008	0.0023	1	PASS	ND	
LEAD	ppm	0.0039	0.0117	1	PASS	0.1600	

Analyzed by: 3726, 8, 2080	Weight: 0.2000g	Extraction date: 09/03/25 15:01:03	Extracted by: 3726
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Analysis Method : SOP.T.40.081.CO
Analytical Batch : DE010893HEA
Instrument Used : Agilent 7800 "Godzilla"
Analyzed Date : 09/05/25 10:36:07

Batch Date : 09/03/25 10:22:11

Dilution : 50
Reagent : N/A
Consumables : N/A
Pipette : N/A

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP.T.40.081.CO. Sample preparation for Heavy Metals Analysis via SOP.T.30.081.CO.

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