

CERTIFICATE OF ANALYSIS

Prepared for:
NuLeaf Naturals LLC

1550 Larimer St. Ste 964
 Denver, CO USA 80202

Full Spectrum Mixed Berry Gummies

Batch ID or Lot Number: 420F306-0356	Test: Potency	Reported: 13Jun2024	USDA License: N/A
Matrix: Unit	Test ID: T000283518	Started: 12Jun2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 10Jun2024	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.284	0.989	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.260	0.904	ND	ND	Sample Weight=4g
Cannabidiol (CBD)	0.984	2.659	18.730	4.70	
Cannabidiolic Acid (CBDA)	1.009	2.727	ND	ND	
Cannabidivaricin (CBDV)	0.233	0.629	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.421	1.138	ND	ND	
Cannabigerol (CBG)	0.161	0.561	3.790	0.90	
Cannabigerolic Acid (CBGA)	0.675	2.347	ND	ND	
Cannabinol (CBN)	0.211	0.732	5.920	1.50	
Cannabinolic Acid (CBNA)	0.460	1.601	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.804	2.796	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.730	2.539	ND	ND	
Delta 9-Tetrahydrocannabivarinic Acid (THCA-A)	0.647	2.250	ND	ND	
Tetrahydrocannabivarin (THCV)	0.147	0.511	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.571	1.984	ND	ND	
Total Cannabinoids			28.440	7.10	
Total Potential THC			ND	ND	
Total Potential CBD			18.730	4.70	

Final Approval



Karen Winternheimer
13Jun2024
01:54:00 PM MDT

PREPARED BY / DATE



APPROVED BY / DATE

Sam Smith
13Jun2024
01:56:00 PM MDT



<https://results.botanacor.com/api/v1/coas/uuid/f78dba73-a40d-42f3-bca1-ebe714d62db0>

Definitions

% = % (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)).

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.



Cart #4329.02

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Prepared for:
NuLeaf Naturals LLC

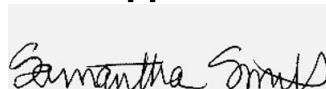
1550 Larimer St. Ste 964
 Denver, CO USA 80202

Full Spectrum Mixed Berry Gummies

Batch ID or Lot Number: 420F306-0356	Test: Pesticides	Reported: 27Jun2024	USDA License: NA
Matrix: Finished Product	Test ID: T000284756	Started: 26Jun2024	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 24Jun2024	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)
Abamectin	492 - 2782	ND	Malathion	289 - 2740
Acephate	39 - 2737	ND	Metalaxyl	43 - 2742
Acetamiprid	39 - 2709	ND	Methiocarb	41 - 2732
Azoxystrobin	45 - 2727	ND	Methomyl	42 - 2761
Bifenazate	45 - 2708	ND	MGK 264 1	65 - 1532
Boscalid	39 - 2717	ND	MGK 264 2	97 - 1089
Carbaryl	38 - 2731	ND	Myclobutanil	40 - 2704
Carbofuran	42 - 2702	ND	Naled	43 - 2682
Chlorantraniliprole	38 - 2717	ND	Oxamyl	42 - 2764
Chlorpyrifos	25 - 2744	ND	Pacllobutrazol	41 - 2702
Clofentezine	278 - 2710	ND	Permethrin	263 - 2746
Diazinon	278 - 2746	ND	Phosmet	43 - 2608
Dichlorvos	264 - 2725	ND	Prophos	277 - 2740
Dimethoate	41 - 2726	ND	Propoxur	42 - 2701
E-Fenpyroximate	260 - 2843	ND	Pyridaben	265 - 2838
Etofenprox	36 - 2769	ND	Spinosad A	30 - 2070
Etoxazole	254 - 2755	ND	Spinosad D	58 - 687
Fenoxy carb	42 - 2737	ND	Spiromesifen	246 - 2837
Fipronil	37 - 2764	ND	Spirotetramat	294 - 2758
Flonicamid	45 - 2733	ND	Spiroxamine 1	15 - 1020
Fludioxonil	268 - 2689	ND	Spiroxamine 2	24 - 1610
Hexythiazox	34 - 2828	ND	Tebuconazole	303 - 2724
Imazalil	284 - 2776	ND	Thiacloprid	43 - 2760
Imidacloprid	43 - 2744	ND	Thiamethoxam	37 - 2739
Kresoxim-methyl	46 - 2757	ND	Trifloxystrobin	42 - 2725

Final Approval



Sam Smith
27Jun2024
09:09:00 AM MDT

PREPARED BY / DATE



APPROVED BY / DATE

Karen Winternheimer
27Jun2024
09:11:00 AM MDT



<https://results.botanacor.com/api/v1/coas/uuid/9f9a7b8b-3987-47c7-bc9b-296934d79987>

Definitions

ND = None Detected (defined by dynamic range of the method)

Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

ppb = Parts Per Billion

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NuLeaf Naturals LLC

 1550 Larimer St. Ste 964
 Denver, CO USA 80202

Full Spectrum Mixed Berry Gummies

Batch ID or Lot Number: 420F306-0356	Test: Heavy Metals	Reported: 26Jun2024	USDA License: NA
Matrix: Finished Product	Test ID: T000284758	Started: 25Jun2024	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 24Jun2024	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.66	ND	
Cadmium	0.05 - 4.56	ND	
Mercury	0.05 - 4.82	ND	
Lead	0.05 - 4.70	ND	

Final Approval


 Karen Winternheimer
 26Jun2024
 01:48:00 PM MDT

PREPARED BY / DATE



APPROVED BY / DATE

 Sam Smith
 26Jun2024
 02:00:00 PM MDT

<https://results.botanacor.com/api/v1/coas/uuid/3a24d496-88a6-489f-bbf3-b5e9a53644c7>
Definitions

ND = None Detected (defined by dynamic range of the method)

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Prepared for:
NuLeaf Naturals LLC

1550 Larimer St. Ste 964
 Denver, CO USA 80202

Full Spectrum Mixed Berry Gummies

Batch ID or Lot Number: 420F306-0356	Test: Microbial Contaminants	Reported: 28Jun2024	USDA License: NA
Matrix: Finished Product	Test ID: T000284757	Started: 25Jun2024	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 24Jun2024	Status: NA

Microbial

Contaminants

Contaminants	Method	LOD	Quantitation		Notes
			Range	Result	
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	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



Brianne Maillot
 28Jun2024
 10:22:00 AM MDT



Brett Hudson
 28Jun2024
 04:13:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/4b5e589d-da5d-438e-bd36-b580d87531c4>

Definitions

* 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
 CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
 ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
 STEC = Shiga Toxin-Producing E. coli

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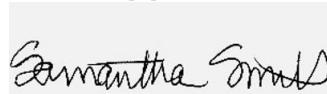
1550 Larimer St. Ste 964
Denver, CO USA 80202

Full Spectrum Mixed Berry Gummies

Batch ID or Lot Number: 420F306-0356	Test: Mycotoxins	Reported: 28Jun2024	USDA License: N/A
Matrix: Finished Product	Test ID: T000284760	Started: 26Jun2024	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 24Jun2024	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.12 - 131.53	ND	N/A
Aflatoxin B1	1.02 - 33.72	ND	
Aflatoxin B2	1.02 - 33.72	ND	
Aflatoxin G1	1.09 - 33.33	ND	
Aflatoxin G2	1.12 - 33.69	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
28Jun2024
11:47:00 AM MDT

PREPARED BY / DATE



APPROVED BY / DATE

Karen Winternheimer
28Jun2024
11:49:00 AM MDT



<https://results.botanacor.com/api/v1/coas/uuid/2057ca2a-9529-4931-929c-22b8e6018779>

Definitions

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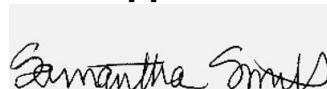
1550 Larimer St. Ste 964
Denver, CO USA 80202

Full Spectrum Mixed Berry Gummies

Batch ID or Lot Number: 420F306-0356	Test: Residual Solvents	Reported: 28Jun2024	USDA License: N/A
Matrix: Finished Product	Test ID: T000284759	Started: 27Jun2024	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 24Jun2024	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	75 - 1499	ND	
Butanes (Isobutane, n-Butane)	150 - 2998	ND	
Methanol	55 - 1096	ND	
Pentane	77 - 1538	ND	
Ethanol	77 - 1534	>1534	
Acetone	87 - 1742	ND	
Isopropyl Alcohol	93 - 1854	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	89 - 1787	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	84 - 1679	ND	
Toluene	16 - 324	ND	
Xylenes (m,p,o-Xylenes)	117 - 2337	ND	

Final Approval



Sam Smith
28Jun2024
11:23:00 AM MDT

PREPARED BY / DATE



APPROVED BY / DATE

Karen Winternheimer
28Jun2024
11:25:00 AM MDT



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Definitions

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