

Certificate of Analysis

Order # 2211HTB0011
Order Date: 11/7/2022
Sample # 2211HTB0011-001
Sampling Date: 11/7/2022 00:11

Receipt Date: 11/7/2022 13:11
Completion Date: 11/08/2022 13:21
Initial Gross Weight:
Sampling Method: LAB-025

Product Name: NuLeaf Blue Raspberry Full Spectrum
Description: Gummy
Matrix: Edible Gummy
Total Batch Weight or Volume:



Client: NuLeaf Naturals
Address: 3400 S. Federal Blvd.
Address: Denver, CO 80110

Batch #: 220281
Extracted From: Hemp
Lot ID: 220281
Seed to Sale #:

Batch Date: 11/7/2022
Cultivars: Distillate
Test Reg State: Hemp FL

Cultivation Facility:
Cultivation Date: 11/7/2022
Production Facility: Plant 6
Production Date: 11/7/2022

SUMMARY

TESTED Potency	NOT TESTED Terpenes	NOT TESTED Pesticides	NOT TESTED Heavy Metals	NOT TESTED Total Contaminant Load	NOT TESTED Residual Solvents	NOT TESTED Total Aerobic Bacteria
NOT TESTED Mycotoxins	NOT TESTED Microbials	NOT TESTED Total Yeast and Mold	NOT TESTED Filtration and Foreign Material	NOT TESTED Water Activity	NOT TESTED Moisture	NOT TESTED Homogeneity

POTENCY

TESTED

Analyte	LOD (mg/g)	Result (mg/g)	Result %	Result mg/unit	
d9-THC	0.00002	1.03	0.103	5.133	█
CBG	0.000015	0.805	0.080	4.024	█
CBD	0.00001	0.411	0.041	2.053	█
CBN	0.000009	0.382	0.038	1.910	█
CBC	0.000004	ND	ND	N/A	
CBDA	0.000012	ND	ND	N/A	
CBDV	0.000017	ND	ND	N/A	
CBGA	0.000008	ND	ND	N/A	
d8-THC	0.000246	ND	ND	N/A	
THCA	0.000012	ND	ND	N/A	
THCV	0.000015	ND	ND	N/A	

Sample Prepared By: 023	Date/Time: 11/8/2022 13:02	Sample Analyzed By: 023	Date/Time: 11/8/2022 13:05
Batch Reviewed By: 027	Date/Time: 11/8/2022 13:20	Analysis #: Potency 1	
Specimen wt (g): 0.5455		Dilution: 100	
Analysis Method: TM-001 Potency		Instrument Used: HPLC	

POTENCY SUMMARY

Total THC 0.103%	Total THC/Unit 5.133 mg	THC Label Claim N/A	Total Cannabinoids 0.3%
Total CBD 0.041%	Total CBD/Unit 2.053 mg	CBD Label Claim N/A	Total Cannabinoids/Unit 13.100 mg

TERPENES SUMMARY

Analyte	Result	Result %
(+/-)-Borneol		
(+/-)-Fenchone		
[+/-]-Camphor		
alpha-Bisabolol		
alpha-Cedrene		
alpha-Humulene		
alpha-Phellandrene		
alpha-Pinene		
alpha-Terpinene		
alpha-terpinolene		

Total Terpenes:

Showing top 10 Terpenes, full analysis on the following page.

Definitions and Abbreviations used in this report: Total THC = Delta 9 THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877), Total Cannabinoids = THC + THCA + CBD + CBDA + CBG + CBGA + Delta 8 THC + THCV + CBDV + CBC + CBN, Total THC and Total CBD are expressed as mg in total package weight, (Dilution) = Dilution Factor, (%) = Percent, (mg/g) = Milligrams per Gram, (mg/mL) = Milligrams per Milliliter, (mg/kg) = Milligrams per Kilogram, (ug/kg) = Microgram per Kilogram, (cfu/g) = Colony Forming Unit per Gram, Action Limit of Absent is equivalent to < 1 cfu/g, (aw) = Water Activity, (LOD) = Limit of Detection, (LOQ) = Limit of Quantitation; (ppm) = parts per million; (ppb) = parts per billion; Units for ppm also expressed as (mg/kg); Units for ppb also expressed as (ug/kg).

This report shall not be reproduced, without written approval, from Method Testing Labs. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.

Prepared for:

NULEAF NATURALS


1550 LARIMER ST. #964
DENVER, CO USA 80202

D9 THC Gummy Blue Rasp

Batch ID or Lot Number: 220281	Test: Heavy Metals	Reported: 25Oct2022	USDA License: NA
Matrix: Unit	Test ID: T000224930	Started: 24Oct2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 17Oct2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.19	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 3.79	ND	
Lead	0.04 - 4.13	ND	

Final Approval



Sam Smith
25Oct2022
08:37:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
25Oct2022
08:42:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/8b7d370e-bec2-4d8f-9174-4b9b18da0ad8>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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 Accredited by A2LA.



Cert #4329.02
8b7d370ebec24d8f91744b9b18da0ad8.1

Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202


D9 THC Gummy Blue Rasp

Batch ID or Lot Number: 220281	Test: Microbial Contaminants	Reported: 21Oct2022	USDA License: NA
Matrix: Finished Product	Test ID: T000224929	Started: 18Oct2022	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 17Oct2022	Status: NA

Microbial Contaminants

Contaminants	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



Eden Thompson-Wright
21Oct2022
03:24:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
21Oct2022
03:33:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/611865c3-c747-490d-921a-4ab97ee71a28>

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

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 Accredited by A2LA.



Cert #4329.02

611865c3c747490d921a4ab97ee71a28.1

Prepared for:
NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

D9 THC Gummy Blue Rasp

Batch ID or Lot Number: 220281	Test: Pesticides	Reported: 26Oct2022	USDA License: NA
Matrix: Concentrate	Test ID: T000224928	Started: 25Oct2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 17Oct2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	251 - 2634	ND	Malathion	288 - 2733	ND
Acephate	35 - 2752	ND	Metalaxyl	40 - 2748	ND
Acetamiprid	36 - 2688	ND	Methiocarb	42 - 2801	ND
Azoxystrobin	40 - 2741	ND	Methomyl	34 - 2705	ND
Bifenazate	38 - 2718	ND	MGK 264 1	144 - 1597	ND
Boscalid	41 - 2823	ND	MGK 264 2	113 - 1138	ND
Carbaryl	40 - 2721	ND	Myclobutanil	45 - 2760	ND
Carbofuran	41 - 2709	ND	Naled	47 - 2735	ND
Chlorantraniliprole	43 - 2763	ND	Oxamyl	38 - 2691	ND
Chlorpyrifos	56 - 2830	ND	Pacllobutrazol	43 - 2705	ND
Clofentezine	279 - 2735	ND	Permethrin	282 - 2780	ND
Diazinon	277 - 2745	ND	Phosmet	42 - 2720	ND
Dichlorvos	258 - 2688	ND	Prophos	287 - 2746	ND
Dimethoate	37 - 2672	ND	Propoxur	40 - 2714	ND
E-Fenpyroximate	283 - 2752	ND	Pyridaben	289 - 2762	ND
Etofenprox	42 - 2757	ND	Spinosad A	30 - 2259	ND
Etoxazole	288 - 2732	ND	Spinosad D	43 - 500	ND
Fenoxycarb	45 - 2766	ND	Spiromesifen	270 - 2789	ND
Fipronil	58 - 2756	ND	Spirotetramat	260 - 2788	ND
Flonicamid	39 - 2707	ND	Spiroxamine 1	16 - 1183	ND
Fludioxonil	286 - 2787	ND	Spiroxamine 2	20 - 1603	ND
Hexythiazox	39 - 2786	ND	Tebuconazole	294 - 2729	ND
Imazalil	259 - 2800	ND	Thiacloprid	36 - 2683	ND
Imidacloprid	42 - 2697	ND	Thiamethoxam	40 - 2711	ND
Kresoxim-methyl	17 - 2783	ND	Trifloxystrobin	41 - 2738	ND

Final Approval


Sam Smith
26Oct2022
11:01:00 AM MDT

PREPARED BY / DATE


Karen Winternheimer
26Oct2022
11:05:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/fa49ec82-d5f0-4e7d-9dc7-6ac9c0c2c81c>

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

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 Accredited by A2LA.



Cert #4329.02
fa49ec82d5f04e7d9dc76ac9c0c2c81c.1

Prepared for:

NULEAF NATURALS


1550 LARIMER ST. #964
DENVER, CO USA 80202

D9 THC Gummy Blue Rasp

Batch ID or Lot Number: 220281	Test: Residual Solvents	Reported: 20Oct2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000224931	Started: 19Oct2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 17Oct2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	94 - 1873	ND	
Butanes (Isobutane, n-Butane)	195 - 3901	ND	
Methanol	61 - 1226	ND	
Pentane	104 - 2077	ND	
Ethanol	100 - 2000	ND	
Acetone	103 - 2051	ND	
Isopropyl Alcohol	104 - 2074	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	103 - 2053	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	104 - 2088	ND	
Toluene	19 - 370	ND	
Xylenes (m,p,o-Xylenes)	138 - 2763	ND	

Final Approval



Sam Smith
20Oct2022
08:51:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
20Oct2022
08:54:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/77deefc-32a1-4eea-8f4a-a189e4c33227>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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 Accredited by A2LA.



Cert #4329.02
77deefc32a14eea8f4aa189e4c33227.1