

**SAMPLE NAME:** Full Spectrum CBD Gummies - Strawberry

Infused, Colorado Infused

**CULTIVATOR / MANUFACTURER**

Business Name:

License Number:

Address:

**DISTRIBUTOR / TESTED FOR**

Business Name: NuLeaf Naturals LLC

License Number:

Address: 1550 Larimer St. Ste 964  
Denver, CO USA 80202**SAMPLE DETAIL****Batch Number:** 431F306-0543, -0218, -0222**Sample ID:** 240810R001**Date of Sampling:** 08/10/2024**Time of Sampling:** 3:33 p.m.**Sampler Name:****Sampler Company:****Date Collected:** 08/10/2024**Date Received:** 08/10/2024**Batch Size:****Sample Size:** 1.0 units**Unit Mass:** 4 grams per Unit**Serving Size:**Scan QR code to verify  
authenticity of results.**CANNABINOID ANALYSIS - SUMMARY****Total THC:** 0.584 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC =  $\Delta^9\text{-THC} + (\text{THCa} (0.877))$ 

Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids =  $\Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} +$  $\text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$ Total Cannabinoids =  $(\Delta^9\text{-THC} + 0.877\text{*THCa}) + (\text{CBD} + 0.877\text{*CBDa}) +$  $(\text{CBG} + 0.877\text{*CBGa}) + (\text{THCV} + 0.877\text{*THCVa}) + (\text{CBC} + 0.877\text{*CBCa}) +$  $(\text{CBDV} + 0.877\text{*CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$ **Total CBD:** 14.628 mg/unit**Sum of Cannabinoids:** 20.356 mg/unit**Total Cannabinoids:** 20.356 mg/unit

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** 6 CCR 1010-21 Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations; where applicable

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

  
LQC verified by: Maria Garcia  
Job Title: Senior Laboratory Analyst  
Date: 08/13/2024  
Approved by: Josh Wurzer  
Job Title: Chief Compliance Officer  
Date: 08/13/2024



FULL SPECTRUM CBD GUMMIES - STRAWBERRY | DATE ISSUED 08/13/2024

## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

**TOTAL THC: 0.584 mg/unit**Total THC ( $\Delta^9\text{-THC} + 0.877\text{*THCa}$ )**TOTAL CBD: 14.628 mg/unit**

Total CBD (CBD + 0.877\*CBDa)

**TOTAL CANNABINOIDs: 20.356 mg/unit**Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8\text{-THC}$  + CBL + CBN**TOTAL CBG: 4.788 mg/unit**

Total CBG (CBG + 0.877\*CBGa)

**TOTAL THCV: ND**

Total THCV (THCV + 0.877\*THCVa)

**TOTAL CBC: 0.056 mg/unit**

Total CBC (CBC + 0.877\*CBCa)

**TOTAL CBDV: 0.164 mg/unit**

Total CBDV (CBDV + 0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 08/13/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
<b>CBD</b>	0.004 / 0.011	±0.1364	<b>3.657</b>	<b>0.3657</b>
<b>CBG</b>	0.002 / 0.006	±0.0581	<b>1.197</b>	<b>0.1197</b>
<b><math>\Delta^9\text{-THC}</math></b>	0.002 / 0.014	±0.0080	<b>0.146</b>	<b>0.0146</b>
<b>CBDV</b>	0.002 / 0.012	±0.0017	<b>0.041</b>	<b>0.0041</b>
<b>CBN</b>	0.001 / 0.007	±0.0010	<b>0.034</b>	<b>0.0034</b>
<b>CBC</b>	0.003 / 0.010	±0.0005	<b>0.014</b>	<b>0.0014</b>
<b><math>\Delta^8\text{-THC}</math></b>	0.01 / 0.02	N/A	<b>ND</b>	<b>ND</b>
<b>THCa</b>	0.001 / 0.005	N/A	<b>ND</b>	<b>ND</b>
<b>THCV</b>	0.002 / 0.012	N/A	<b>ND</b>	<b>ND</b>
<b>THCVa</b>	0.002 / 0.019	N/A	<b>ND</b>	<b>ND</b>
<b>CBDa</b>	0.001 / 0.026	N/A	<b>ND</b>	<b>ND</b>
<b>CBDVa</b>	0.001 / 0.018	N/A	<b>ND</b>	<b>ND</b>
<b>CBGa</b>	0.002 / 0.007	N/A	<b>ND</b>	<b>ND</b>
<b>CBL</b>	0.003 / 0.010	N/A	<b>ND</b>	<b>ND</b>
<b>CBCa</b>	0.001 / 0.015	N/A	<b>ND</b>	<b>ND</b>
<b>Total THC</b>		±0.0080	<b>0.146</b>	<b>0.0146</b>
<b>SUM OF CANNABINOIDs</b>			<b>5.089 mg/g</b>	<b>0.5089%</b>

**Unit Mass: 4 grams per Unit**

$\Delta^9\text{-THC}$ per Unit	0.584 mg/unit
Total THC per Unit	0.584 mg/unit
CBD per Unit	14.628 mg/unit
Total CBD per Unit	14.628 mg/unit
Sum of Cannabinoids per Unit	20.356 mg/unit
Total Cannabinoids per Unit	20.356 mg/unit



# Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 08/19/2024

## SAMPLE NAME: Full Spectrum CBD Gummies - Strawberry

Infused, Colorado Infused

### CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

### SAMPLE DETAIL

Batch Number: 431F306-0543, -0218, -0222

Sample ID: 240812Q016

Date of Sampling: 08/12/2024

Time of Sampling: 2:27 p.m.

Sampler Name:

Sampler Company:

### DISTRIBUTOR / TESTED FOR

Business Name: NuLeaf Naturals LLC

License Number:

Address: 1550 Larimer St. Ste 964  
Denver, CO USA 80202



Scan QR code to verify  
authenticity of results.

### SAFETY ANALYSIS - SUMMARY

Pesticides: ✓ PASS

Heavy Metals: ✓ PASS

Mycotoxins: ✓ PASS

Microbiology (PCR): ✓ PASS

Residual Solvents: ✓ PASS

Microbiology (Plating): ✓ PASS

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

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**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Daniel Hardwick  
Job Title: Technical Lead  
Date: 08/19/2024

Approved by: Josh Wurzer  
Job Title: Chief Compliance Officer  
Date: 08/19/2024

Amendment to Certificate of Analysis 240812Q016-001



FULL SPECTRUM CBD GUMMIES - STRAWBERRY | DATE ISSUED 08/19/2024



## Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

\*GC-MS utilized where indicated.

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

**Exclusions<sup>1</sup>** see last page

**Exclusions<sup>2</sup>** see last page

### PESTICIDE TEST RESULTS - 08/15/2024 ✓ PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	RESULT
Abamectin	0.03 / 0.10	0.3	N/A	ND	PASS
Acephate	0.02 / 0.07	5	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	4	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	5	N/A	ND	PASS
Aldicarb	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	40	N/A	ND	PASS
Bifenazate	0.01 / 0.04	5	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	0.5	N/A	ND	PASS
Boscalid	0.03 / 0.09	10	N/A	ND	PASS
Captan	0.19 / 0.57	5	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Carbofuran	0.02 / 0.05	$\geq$ LOD	N/A	ND	PASS
Chlorantraniliprole	0.04 / 0.12	40	N/A	ND	PASS
Chlordane*	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.5	N/A	ND	PASS
Coumaphos	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS
Cyfluthrin	0.12 / 0.38	1	N/A	ND	PASS
Cypermethrin	0.11 / 0.32	1	N/A	ND	PASS
Daminozide	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	20	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Etoxazole	0.02 / 0.06	1.5	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	10	N/A	ND	PASS
Fenoxy carb	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	2	N/A	ND	PASS
Fipronil	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Flonicamid	0.03 / 0.10	2	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	30	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	2	N/A	ND	PASS
Imazalil	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	3	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	1	N/A	ND	PASS
Malathion	0.03 / 0.09	5	N/A	ND	PASS
Metalauxyl	0.02 / 0.07	15	N/A	ND	PASS
Methiocarb	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS

Continued on next page



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Pesticide Analysis *Continued*PESTICIDE TEST RESULTS - 08/15/2024 *continued* (✓) PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	RESULT
Methomyl	0.03 / 0.10	0.1	N/A	ND	PASS
Mevinphos	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	9	N/A	ND	PASS
Naled	0.02 / 0.07	0.5	N/A	ND	PASS
Oxamyl	0.04 / 0.11	0.2	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	$\geq$ LOD	N/A	ND	PASS
Parathion-methyl	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Pentachloronitrobenzene*	0.03 / 0.09	0.2	N/A	ND	PASS
Permethrin	0.04 / 0.12	20	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.2	N/A	ND	PASS
Piperonyl Butoxide	0.02 / 0.07	8	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.4	N/A	ND	PASS
Propiconazole	0.02 / 0.07	20	N/A	ND	PASS
Propoxur	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	1	N/A	ND	PASS
Pyridaben	0.02 / 0.07	3	N/A	ND	PASS
Spinetoram	0.02 / 0.07	3	N/A	ND	PASS
Spinosad	0.02 / 0.07	3	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	12	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	13	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	2	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Thiamethoxam	0.03 / 0.10	4.5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	30	N/A	ND	PASS



## Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 08/15/2024 (✓) PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/kg}$ )	ACTION LIMIT ( $\mu\text{g/kg}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/kg}$ )	RESULT ( $\mu\text{g/kg}$ )	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0 / 3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

*Exclusions<sup>3</sup> see last page*



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## Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

**Method:** QSP 1204 - Analysis of Residual Solvents by GC-MS

**Total Butanes** = n-Butane + 2-Methylpropane (Isobutane)

**Total Heptanes** = 2,2-Dimethylpentane (Neoheptane) + 2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) + 3-Methylhexane + 3-Ethylpentane + n-Heptane

**Total Xylenes** = 1,2-Dimethylbenzene (o-Xylene) +

1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

RESIDUAL SOLVENTS TEST RESULTS - 08/15/2024 PASS

COMPOUND	LOD/LOQ ( $\mu$ g/g)	ACTION LIMIT ( $\mu$ g/g)	MEASUREMENT UNCERTAINTY ( $\mu$ g/g)	RESULT ( $\mu$ g/g)	RESULT
Propane	0.234 / 0.781	1000	N/A	ND	PASS
2-Methylpropane (Isobutane)	0.052 / 0.173		N/A	ND	PASS
n-Butane	0.019 / 0.063		N/A	ND	PASS
<b>Total Butanes</b>		1000		ND	PASS
n-Pentane	0.310 / 1.033	1000	N/A	ND	PASS
n-Hexane	0.110 / 0.366	60	N/A	<LOQ	PASS
2,2-Dimethylpentane (Neoheptane)	0.493 / 1.642		N/A	ND	PASS
2,3-Dimethylpentane	1.009 / 3.365		N/A	ND	PASS
2,4-Dimethylpentane	0.737 / 2.458		N/A	ND	PASS
3,3-Dimethylpentane	0.198 / 0.660		N/A	ND	PASS
2,2,3-Trimethylbutane (Triptane)	0.521 / 1.738		N/A	ND	PASS
2-Methylhexane (Isoheptane)	0.610 / 2.034		N/A	ND	PASS
3-Methylhexane	0.235 / 0.785		N/A	ND	PASS
3-Ethylpentane	0.304 / 1.012		N/A	ND	PASS
n-Heptane	13.12 / 43.72		N/A	ND	PASS
<b>Total Heptanes</b>		1000		ND	PASS
Benzene	0.089 / 0.295	2	N/A	ND	PASS
Toluene	0.115 / 0.382	180	N/A	ND	PASS
1,3-Dimethylbenzene / 1,4-Dimethylbenzene	0.451 / 1.502		N/A	ND	PASS
1,2-Dimethylbenzene (o-Xylene)	0.387 / 1.289		N/A	ND	PASS
<b>Total Xylenes</b>		430		ND	PASS
Methanol	53.92 / 163.4	600	N/A	ND	PASS
Ethanol	8.984 / 27.23		$\pm 48.922$	3136.01	
2-Propanol (Isopropyl Alcohol)	8.421 / 25.52	1000	N/A	ND	PASS
Acetone	10.59 / 32.08	1000	N/A	ND	PASS
Ethyl Acetate	1.123 / 3.745	1000	N/A	ND	PASS



## Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

**Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 08/14/2024 PASS

COMPOUND	LOD/LOQ ( $\mu$ g/g)	ACTION LIMIT ( $\mu$ g/g)	MEASUREMENT UNCERTAINTY ( $\mu$ g/g)	RESULT ( $\mu$ g/g)	RESULT
Arsenic	0.02 / 0.1	1.5	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.5	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	1.5	N/A	ND	PASS



FULL SPECTRUM CBD GUMMIES - STRAWBERRY | DATE ISSUED 08/19/2024



## Microbiology Analysis

### PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

### MICROBIOLOGY TEST RESULTS (PCR) - 08/17/2024 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS
<i>Salmonella</i> spp.	Not Detected in 1g	ND	PASS

### MICROBIOLOGY TEST RESULTS (PLATING) - 08/17/2024 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Total Aerobic Bacteria	10000	ND	PASS
Total Yeast and Mold	1000	ND	PASS
Coliforms	100	ND	PASS

### NOTES

Reason for Amendment: Order Detail Information Change

1. Exclusions: QSP 1213 - Sample Certification: California Code of Regulation Title 4 Division 19
2. Exclusions: QSP 1212 - Sample Certification: California Code of Regulation Title 4 Division 19
3. Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19