SC Labs®

# Hemp Regulatory Compliance Testing
# CERTIFICATE OF ANALYSIS

DATE ISSUED 06/30/2026

## SAMPLE DETAILS

### SAMPLE NAME: Broad Spectrum CBN Tincture

Infused, Hemp

### CLIENT

**Business Name:** Nuleaf Naturals - CO

**License Number:**

**Address:**

### SAMPLE DETAIL

**Batch Number:** BN624

**Sample ID:** 260624S001

**Date Collected:** 06/24/2026

**Date Received:** 06/24/2026

**Batch Size:**

**Sample Size:** 60.0 units

**Unit Mass:** 1 milliliter per Unit

**Serving Size:** 1 milliliter per Serving



Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY

**Total THC:** Not Detected

**Total CBD:** 1.895 mg/unit

**Sum of Cannabinoids:** 64.777 mg/unit

**Total Cannabinoids:** 64.777 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 = $\Delta^9$-THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = $\Delta^9$-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + $\Delta^8$-THC + CBN + CBNa
Total Cannabinoids = ($\Delta^9$-THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + $\Delta^8$-THC + (CBN+0.877*CBNa)

**Density:** 0.9414 g/mL

## SAFETY ANALYSIS - SUMMARY

**Pesticides:** ND

**Mycotoxins:** PASS

**Residual Solvents:** DETECTED

**Heavy Metals:** PASS

**Microbiology (PCR):** ND

**Microbiology (Plating):** ND

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:** Colorado Marijuana Rules 1 CCR 212-3

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

Approved by: Sam Schumann
Laboratory Director
Date: 06/30/2026


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## Cannabinoid Analysis

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

**Method:** (GLB-TM-14) Cannabinoid Potency Determination

### TOTAL THC: Not Detected

Total THC ($\Delta^9$-THC+0.877*THCa)

### TOTAL CBD: 1.895 mg/unit

Total CBD (CBD+0.877*CBDa)

### TOTAL CANNABINOIDS: 64.777 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta^8$-THC + (Total CBN)

### TOTAL CBG: 2.151 mg/unit

Total CBG (CBG+0.877*CBGa)

### TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

### TOTAL CBC: 1.910 mg/unit

Total CBC (CBC+0.877*CBCa)

### TOTAL CBDV: ND

Total CBDV (CBDV+0.877*CBDVa)

*Exclusions[1] see last page*

*Exclusions[2] see last page*

### CANNABINOID TEST RESULTS - 06/26/2026

| COMPOUND | LOD/LOQ (mg/mL) | MEASUREMENT UNCERTAINTY (mg/mL) | RESULT (mg/mL) | RESULT (%) |
|---|---|---|---|---|
| CBN | *0.016 / 0.284* | *±3.0352* | 58.821 | 6.2482 |
| CBG | *0.026 / 0.215* | *±0.0744* | 2.151 | 0.2285 |
| CBC | *0.005 / 0.381* | *±0.1356* | 1.910 | 0.2029 |
| CBD | *0.047 / 0.978* | *±0.1270* | 1.895 | 0.2013 |
| $\Delta^9$-THC | *0.001 / 0.089* | *N/A* | ND | ND |
| $\Delta^8$-THC | *0.015 / 1.076* | *N/A* | ND | ND |
| THCa | *0.004 / 0.079* | *N/A* | ND | ND |
| THCV | *0.019 / 0.196* | *N/A* | ND | ND |
| THCVa | *0.014 / 0.763* | *N/A* | ND | ND |
| CBDa | *0.055 / 1.002* | *N/A* | ND | ND |
| CBDV | *0.035 / 0.230* | *N/A* | ND | ND |
| CBDVa | *0.016 / 0.420* | *N/A* | ND | ND |
| CBGa | *0.018 / 0.904* | *N/A* | ND | ND |
| CBCa | *0.017 / 0.347* | *N/A* | ND | ND |
| CBNa | *0.015 / 0.616* | *N/A* | ND | ND |
| SUM OF CANNABINOIDS | | | 64.777 mg/mL | 6.8809% |

Unit Mass: 1 milliliter per Unit / Serving Size: 1 milliliter per Serving

| | |
|---|---|
| $\Delta^9$-THC per Unit | ND |
| $\Delta^9$-THC per Serving | ND |
| Total THC per Unit | ND |
| Total THC per Serving | ND |
| CBD per Unit | 1.895 mg/unit |
| CBD per Serving | 1.895 mg/serving |
| Total CBD per Unit | 1.895 mg/unit |
| Total CBD per Serving | 1.895 mg/serving |
| Sum of Cannabinoids per Unit | 64.777 mg/unit |
| Sum of Cannabinoids per Serving | 64.777 mg/serving |
| Total Cannabinoids per Unit | 64.777 mg/unit |
| Total Cannabinoids per Serving | 64.777 mg/serving |

### DENSITY TEST RESULT

**0.9414 g/mL**

Tested 06/26/2026


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## Pesticide Analysis

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

**Method:** (GLB-TM-17) Pesticide Analysis by LC-MS & GC-MS

*Exclusions[3] see last page*

**PESTICIDE TEST RESULTS** - 06/29/2026 **ND**

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---|---|---|---|
| Abamectin | *0.224 / 0.746* | *N/A* | ND |
| Acephate | *0.005 / 0.016* | *N/A* | ND |
| Acetamiprid | *0.008 / 0.025* | *N/A* | ND |
| Azoxystrobin | *0.004 / 0.015* | *N/A* | ND |
| Bifenazate | *0.002 / 0.008* | *N/A* | ND |
| Boscalid | *0.015 / 0.050* | *N/A* | ND |
| Carbaryl | *0.022 / 0.074* | *N/A* | ND |
| Carbofuran | *0.002 / 0.007* | *N/A* | ND |
| Chlorantraniliprole | *0.017 / 0.057* | *N/A* | ND |
| Chlorpyrifos | *0.006 / 0.020* | *N/A* | ND |
| Clofentezine | *0.003 / 0.009* | *N/A* | ND |
| Diazinon | *0.003 / 0.01* | *N/A* | ND |
| Dichlorvos (DDVP) | *0.218 / 0.728* | *N/A* | ND |
| Dimethoate | *0.002 / 0.007* | *N/A* | ND |
| Ethoprophos | *0.014 / 0.047* | *N/A* | ND |
| Etofenprox | *0.007 / 0.024* | *N/A* | ND |
| Etoxazole | *0.009 / 0.030* | *N/A* | ND |
| Fenoxycarb | *0.005 / 0.018* | *N/A* | ND |
| Fenpyroximate | *0.007 / 0.022* | *N/A* | ND |
| Fipronil | *0.028 / 0.094* | *N/A* | ND |
| Flonicamid | *0.004 / 0.015* | *N/A* | ND |
| Fludioxonil | *0.006 / 0.021* | *N/A* | ND |
| Hexythiazox | *0.015 / 0.048* | *N/A* | ND |
| Imazalil | *0.010 / 0.034* | *N/A* | ND |
| Imidacloprid | *0.009 / 0.031* | *N/A* | ND |
| Kresoxim-methyl | *0.016 / 0.054* | *N/A* | ND |
| Malathion | *0.011 / 0.037* | *N/A* | ND |
| Metalaxyl | *0.003 / 0.009* | *N/A* | ND |
| Methiocarb | *0.006 / 0.019* | *N/A* | ND |
| Methomyl | *0.002 / 0.006* | *N/A* | ND |
| MGK-264 | *0.017 / 0.055* | *N/A* | ND |
| Myclobutanil | *0.015 / 0.051* | *N/A* | ND |
| Naled | *0.008 / 0.027* | *N/A* | ND |
| Oxamyl | *0.002 / 0.008* | *N/A* | ND |
| Paclobutrazol | *0.004 / 0.012* | *N/A* | ND |
| Permethrin | *0.021 / 0.069* | *N/A* | ND |
| Phosmet | *0.005 / 0.018* | *N/A* | ND |
| Propoxur | *0.003 / 0.011* | *N/A* | ND |
| Pyridaben | *0.011 / 0.035* | *N/A* | ND |
| Spinosad | *0.013 / 0.043* | *N/A* | ND |
| Spiromesifen | *0.023 / 0.076* | *N/A* | ND |

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## Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 06/29/2026 *continued* **ND**

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---|---|---|---|
| Spirotetramat | *0.003 / 0.011* | *N/A* | ND |
| Spiroxamine | *0.014 / 0.046* | *N/A* | ND |
| Tebuconazole | *0.013 / 0.042* | *N/A* | ND |
| Thiacloprid | *0.004 / 0.012* | *N/A* | ND |
| Thiamethoxam | *0.004 / 0.012* | *N/A* | ND |
| Trifloxystrobin | *0.003 / 0.011* | *N/A* | ND |

## Mycotoxin Analysis

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

**Method:** (GLB-TM-18) Mycotoxins Contamination Determination in Concentrates

MYCOTOXIN TEST RESULTS - 06/26/2026 PASS

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|---|---|---|---|---|---|
| Aflatoxin B1 | *0.805 / 2.684* | *5* | *N/A* | ND | PASS |
| Aflatoxin B2 | *0.634 / 2.114* | | *N/A* | ND | |
| Aflatoxin G1 | *0.350 / 1.167* | | *N/A* | ND | |
| Aflatoxin G2 | *0.354 / 1.181* | | *N/A* | ND | |
| Ochratoxin A | *0.724 / 2.412* | *5* | *N/A* | ND | PASS |
| Total Aflatoxin | | *20* | | ND | PASS |

## Residual Solvents Analysis

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

**Method:** (GLB-TM-04) Residual Solvent Determination - Helium Carrier Gas

**Total Butanes** = n-Butane + 2-Methylpropane (Isobutane)
**Total Xylenes** = 1,2-Dimethylbenzene (o-Xylene) + 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

*Exclusions[4] see last page*

RESIDUAL SOLVENTS TEST RESULTS - 06/29/2026 **DETECTED**

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---|---|---|---|
| Propane | *11.229 / 37.429* | *N/A* | ND |
| 2-Methylpropane (Isobutane) | *11.966 / 39.887* | *N/A* | ND |
| n-Butane | *11.680 / 38.932* | *N/A* | ND |
| Total Butanes | | | ND |
| n-Pentane | *9.093 / 30.310* | *N/A* | ND |
| n-Hexane | *0.458 / 1.526* | *N/A* | ND |
| n-Heptane | *5.818 / 19.394* | *N/A* | ND |
| Benzene | *0.014 / 0.047* | *N/A* | ND |
| Toluene | *1.051 / 3.503* | *N/A* | ND |
| 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene) | *3.191 / 10.637* | *N/A* | ND |
| 1,2-Dimethylbenzene (o-Xylene) | *3.296 / 10.987* | *N/A* | ND |
| Total Xylenes | | | ND |
| Methanol | *11.936 / 39.787* | *N/A* | ND |
| Ethanol | *6.084 / 20.280* | *±39.1471* | 605.993 |
| 2-Propanol (Isopropyl Alcohol) | *12.039 / 40.129* | *N/A* | ND |
| Acetone | *8.119 / 27.063* | *N/A* | ND |
| Ethyl Acetate | *7.018 / 23.394* | *N/A* | ND |


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## Heavy Metals Analysis

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

**Method:** (GLB-TM-19) Metals Determination

**HEAVY METALS TEST RESULTS -** 06/30/2026 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Arsenic | *0.0089 / 0.0393* | *1.5* | *N/A* | ND | PASS |
| Cadmium | *0.0131 / 0.0438* | *0.5* | *N/A* | ND | PASS |
| Lead | *0.0121 / 0.0404* | *0.5* | *N/A* | ND | PASS |
| Mercury | *0.0108 / 0.0393* | *1.5* | *N/A* | ND | PASS |

## Microbiology Analysis

PCR AND PLATING

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

**Method:** (GLB-TM-25) Bioburden Testing for STEC & Salmonella or (GLB-TM-37) Microbiological Detection of Pathogenic Aspergillus

**MICROBIOLOGY TEST RESULTS (PCR) -** 06/29/2026 **ND**

| COMPOUND | RESULT |
|---|---|
| *Salmonella* spp. | ND |
| Shiga toxin-producing *Escherichia coli* | ND |

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

**Method:** (GLB-TM-24) Bioburden Testing for Total Yeast and Mold

**MICROBIOLOGY TEST RESULTS (PLATING) -** 06/29/2026 **ND**

| COMPOUND | RESULT (cfu/g) |
|---|---|
| Coliforms | ND |
| Total Aerobic Bacteria | ND |
| Total Yeast and Mold | ND |

**NOTES**

Sample serving mass provided by client. Sample unit mass provided by client.

1. Exclusions: Not accredited by the CDPHE and not for official purposes
2. Exclusions: Not accredited by the CDPHE and not for official purposes
3. Exclusions: Not accredited by the CDPHE and not for official purposes
4. Exclusions: Not accredited by the CDPHE and not for official purposes


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