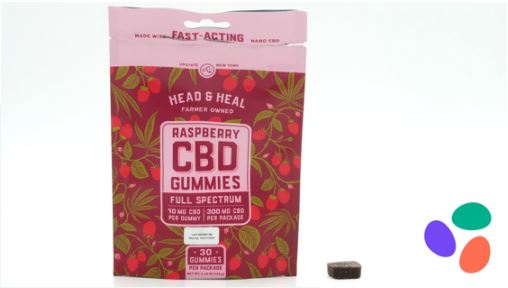
# Hemp Quality Assurance Testing
# CERTIFICATE OF ANALYSIS

**DATE ISSUED 10/03/2023**

## SAMPLE NAME: A00000199
Infused, Hemp

### CULTIVATOR / MANUFACTURER
**Business Name:**
**License Number:**
**Address:**

### DISTRIBUTOR / TESTED FOR
**Business Name:** New York Hemp Oil
**License Number:**
**Address:**




### SAMPLE DETAIL
**Batch Number:**
**Sample ID:** 230929N006

**Date Collected:** 09/29/2023
**Date Received:** 09/29/2023
**Batch Size:**
**Sample Size:** 1.0 units
**Unit Mass:** 183 grams per Unit
**Serving Size:** 6.1 grams per Serving

Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY

**Total THC: 12.261 mg/unit**

**Total CBD: 342.942 mg/unit**

**Sum of Cannabinoids: 373.503 mg/unit**

**Total Cannabinoids: 373.503 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 + CBL + CBN
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 + CBL + CBN

## SAFETY ANALYSIS - SUMMARY

**Microbiology (PCR): ND**

**Microbiology (Plating): ND**

**Water Activity: DETECTED**

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:** California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**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: Randi Vuong
Job Title: Lead Laboratory Technician
Date: 10/03/2023

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 10/03/2023

## 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: 12.261 mg/unit

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

### TOTAL CBD: 342.942 mg/unit

Total CBD (CBD+0.877*CBDa)

### TOTAL CANNABINOIDS: 373.503 mg/unit

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

### TOTAL CBG: 7.503 mg/unit

Total CBG (CBG+0.877*CBGa)

### TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

### TOTAL CBC: 10.797 mg/unit

Total CBC (CBC+0.877*CBCa)

### TOTAL CBDV: <LOQ

Total CBDV (CBDV+0.877*CBDVa)

**CANNABINOID TEST RESULTS -** 10/03/2023

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---|---|---|---|---|
| CBD | *0.004 / 0.011* | *±0.0699* | **1.874** | **0.1874** |
| $\Delta^9$-THC | *0.002 / 0.014* | *±0.0037* | **0.067** | **0.0067** |
| CBC | *0.003 / 0.010* | *±0.0019* | **0.059** | **0.0059** |
| CBG | *0.002 / 0.006* | *±0.0020* | **0.041** | **0.0041** |
| CBDV | *0.002 / 0.012* | *N/A* | **<LOQ** | **<LOQ** |
| $\Delta^8$-THC | *0.01 / 0.02* | *N/A* | **ND** | **ND** |
| THCa | *0.001 / 0.005* | *N/A* | **ND** | **ND** |
| THCV | *0.002 / 0.012* | *N/A* | **ND** | **ND** |
| THCVa | *0.002 / 0.019* | *N/A* | **ND** | **ND** |
| CBDa | *0.001 / 0.026* | *N/A* | **ND** | **ND** |
| CBDVa | *0.001 / 0.018* | *N/A* | **ND** | **ND** |
| CBGa | *0.002 / 0.007* | *N/A* | **ND** | **ND** |
| CBL | *0.003 / 0.010* | *N/A* | **ND** | **ND** |
| CBN | *0.001 / 0.007* | *N/A* | **ND** | **ND** |
| CBCa | *0.001 / 0.015* | *N/A* | **ND** | **ND** |
| **SUM OF CANNABINOIDS** | | | **2.041 mg/g** | **0.2041%** |

**Unit Mass: 183 grams per Unit / Serving Size: 6.1 grams per Serving**

| | |
|---|---|
| $\Delta^9$-THC per Unit | 12.261 mg/unit |
| $\Delta^9$-THC per Serving | 0.409 mg/serving |
| Total THC per Unit | 12.261 mg/unit |
| Total THC per Serving | 0.409 mg/serving |
| CBD per Unit | 342.942 mg/unit |
| CBD per Serving | 11.431 mg/serving |
| Total CBD per Unit | 342.942 mg/unit |
| Total CBD per Serving | 11.431 mg/serving |
| Sum of Cannabinoids per Unit | 373.503 mg/unit |
| Sum of Cannabinoids per Serving | 12.450 mg/serving |
| Total Cannabinoids per Unit | 373.503 mg/unit |
| Total Cannabinoids per Serving | 12.450 mg/serving |

## 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

**MICROBIOLOGY TEST RESULTS (PCR) -** 10/03/2023 **ND**

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

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

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

**MICROBIOLOGY TEST RESULTS (PLATING) -** 10/03/2023 **ND**

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

## Water Activity Analysis

**Method:** QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

**WATER ACTIVITY TEST RESULTS -** 10/02/2023 **DETECTED**

| COMPOUND | LOD/LOQ (Aw) | MEASUREMENT UNCERTAINTY (Aw) | RESULT (Aw) |
|---|---|---|---|
| Water Activity | *0.030 / 0.250* | *±0.0262* | **0.539** |