

SAMPLE NAME: 200526-2400

Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR

Business Name: New York Hemp Oil
License Number: n/a
Address:

SAMPLE DETAIL

Batch Number:
Sample ID: 200602T021

Date Collected: 06/02/2020
Date Received: 06/02/2020
Batch Size:
Sample Size:
Unit Mass: 29.3554 Grams per Unit
Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 73.799 mg/unit

Total CBD: 2176.233 mg/unit

Total Cannabinoids: 2382.219 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 = $\Delta 9\text{THC} + (\text{THCa} \cdot 0.877)$
Total CBD = $\text{CBD} + (\text{CBDa} \cdot 0.877)$
Total Cannabinoids = $(\Delta 9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

Moisture: NT

Density: 0.9459 g/mL

Viscosity: NT

SAFETY ANALYSIS - SUMMARY

Pesticides: ✔ PASS

Mycotoxins: NT

Residual Solvents: ✔ PASS

Heavy Metals: ✔ PASS

Microbial Impurities (PCR): ✔ PASS

Microbial Impurities (Plating): NT

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

TERPENOID ANALYSIS - SUMMARY

35 TESTED, TOP 3 HIGHLIGHTED

● **β Caryophyllene 1.01 mg/g**

● **α Bisabolol 0.50 mg/g**

● **Guaiol 0.30 mg/g**

For quality assurance purposes. Not a Pre-Harvest 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.

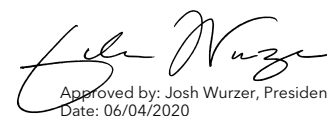
Sample Certification: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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)



LQC verified by: Michael Pham
Date: 06/04/2020



Approved by: Josh Wurzer, President
Date: 06/04/2020



CANNABINOID TEST RESULTS - 06/04/2020

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

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

TOTAL THC: 73.799 mg/unit

Total THC ($\Delta 9\text{THC} + 0.877 \cdot \text{THCa}$)

TOTAL CBD: 2176.233 mg/unit

Total CBD ($\text{CBD} + 0.877 \cdot \text{CBDa}$)

TOTAL CANNABINOIDS: 2382.219 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta 8\text{THC}$ + CBL + CBN

TOTAL CBG: 40.011 mg/unit

Total CBG ($\text{CBG} + 0.877 \cdot \text{CBGa}$)

TOTAL THCV: ND

Total THCV ($\text{THCV} + 0.877 \cdot \text{THCVa}$)

TOTAL CBC: 79.142 mg/unit

Total CBC ($\text{CBC} + 0.877 \cdot \text{CBCa}$)

TOTAL CBDV: 10.891 mg/unit

Total CBDV ($\text{CBDV} + 0.877 \cdot \text{CBDVa}$)

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|----------------------------|----------------|--------------------------------|---------------|------------|
| CBD | 0.004 / 0.011 | ± 3.5341 | 73.781 | 7.3781 |
| CBC | 0.003 / 0.010 | ± 0.1116 | 2.696 | 0.2696 |
| $\Delta 9\text{THC}$ | 0.002 / 0.005 | ± 0.1772 | 2.514 | 0.2514 |
| CBG | 0.002 / 0.005 | ± 0.0848 | 1.363 | 0.1363 |
| CBDa | 0.001 / 0.003 | ± 0.0147 | 0.403 | 0.0403 |
| CBDV | 0.002 / 0.007 | ± 0.0194 | 0.371 | 0.0371 |
| CBL | 0.003 / 0.008 | ± 0.0026 | 0.054 | 0.0054 |
| CBN | 0.001 / 0.004 | ± 0.0007 | 0.019 | 0.0019 |
| $\Delta 8\text{THC}$ | 0.01 / 0.02 | N/A | ND | ND |
| THCa | 0.001 / 0.002 | N/A | ND | ND |
| THCV | 0.002 / 0.008 | N/A | ND | ND |
| THCVa | 0.002 / 0.005 | N/A | ND | ND |
| CBDVa | 0.001 / 0.003 | N/A | ND | ND |
| CBGa | 0.002 / 0.006 | N/A | ND | ND |
| CBCa | 0.001 / 0.004 | N/A | ND | ND |
| SUM OF CANNABINOIDS | | | 81.201 mg/g | 8.1201% |

Unit Mass: 29.3554 Grams per Unit / Serving Size:

| | | | |
|----------------------------------|--------------------------|------------------|------|
| $\Delta 9\text{THC}$ per Unit | 1000.0 per-package limit | 73.799 mg/unit | PASS |
| $\Delta 9\text{THC}$ per Serving | | | |
| Total THC per Unit | | 73.799 mg/unit | |
| Total THC per Serving | | | |
| CBD per Unit | | 2165.871 mg/unit | |
| CBD per Serving | | | |
| Total CBD per Unit | | 2176.233 mg/unit | |
| Total CBD per Serving | | | |
| Sum of Cannabinoids per Unit | | 2383.688 mg/unit | |
| Sum of Cannabinoids per Serving | | | |

MOISTURE TEST RESULT

| |
|------------|
| Not Tested |
|------------|

DENSITY TEST RESULT

| |
|---|
| 0.9459 g/mL |
| Tested 06/04/2020 |
| Method: QSP - (1152) Sample Preparation |

VISCOSITY TEST RESULT

| |
|------------|
| Not Tested |
|------------|



Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

Method: OSP - (1192) Analysis of Terpenoids by GC-FID

1 β Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

2 α Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

3 Guaiol

A sesquiterpene alcohol with a fragrance that can be described as floral, piney, herbal and woody. Found in guaiacum, cypress pine, ginseng, melaleuca, goatweed, incense grass...etc.

TERPENOID TEST RESULTS - 06/04/2020

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|-------------------------|----------------|--------------------------------|------------------|---------------|
| β Caryophyllene | 0.02 / 0.07 | ±0.048 | 1.01 | 0.101 |
| α Bisabolol | 0.02 / 0.07 | ±0.022 | 0.50 | 0.050 |
| Guaiol | 0.03 / 0.09 | ±0.018 | 0.30 | 0.030 |
| α Humulene | 0.02 / 0.05 | ±0.009 | 0.27 | 0.027 |
| Linalool | 0.03 / 0.08 | ±0.008 | 0.15 | 0.015 |
| Terpineol | 0.02 / 0.07 | ±0.009 | 0.08 | 0.008 |
| α Cedrene | 0.02 / 0.07 | N/A | <LOQ | <LOQ |
| Valencene | 0.01 / 0.03 | N/A | <LOQ | <LOQ |
| Caryophyllene Oxide | 0.04 / 0.11 | N/A | <LOQ | <LOQ |
| α Pinene | 0.03 / 0.09 | N/A | ND | ND |
| Camphene | 0.04 / 0.11 | N/A | ND | ND |
| Sabinene | 0.04 / 0.11 | N/A | ND | ND |
| β Pinene | 0.04 / 0.11 | N/A | ND | ND |
| Myrcene | 0.04 / 0.11 | N/A | ND | ND |
| α Phellandrene | 0.05 / 0.1 | N/A | ND | ND |
| 3 Carene | 0.04 / 0.1 | N/A | ND | ND |
| α Terpinene | 0.04 / 0.1 | N/A | ND | ND |
| Limonene | 0.02 / 0.05 | N/A | ND | ND |
| Eucalyptol | 0.03 / 0.08 | N/A | ND | ND |
| Ocimene | 0.03 / 0.09 | N/A | ND | ND |
| γ Terpinene | 0.04 / 0.1 | N/A | ND | ND |
| Sabinene Hydrate | 0.02 / 0.07 | N/A | ND | ND |
| Fenchone | 0.04 / 0.12 | N/A | ND | ND |
| Terpinolene | 0.03 / 0.09 | N/A | ND | ND |
| Fenchol | 0.03 / 0.09 | N/A | ND | ND |
| (-)-Isopulegol | 0.02 / 0.05 | N/A | ND | ND |
| Camphor | 0.1 / 0.2 | N/A | ND | ND |
| Isoborneol | 0.04 / 0.1 | N/A | ND | ND |
| Borneol | 0.1 / 0.2 | N/A | ND | ND |
| Menthol | 0.03 / 0.09 | N/A | ND | ND |
| Nerol | 0.03 / 0.09 | N/A | ND | ND |
| R-(+)-Pulegone | 0.03 / 0.09 | N/A | ND | ND |
| Geraniol | 0.02 / 0.07 | N/A | ND | ND |
| Geranyl Acetate | 0.02 / 0.06 | N/A | ND | ND |
| Nerolidol | 0.3 / 0.8 | N/A | ND | ND |
| Cedrol | 0.04 / 0.11 | N/A | ND | ND |
| TOTAL TERPENOIDS | | | 2.31 mg/g | 0.231% |



 **Pesticide Analysis**

CATEGORY 1 PESTICIDE TEST RESULTS - 06/04/2020  **PASS**

CATEGORY 1 AND 2 PESTICIDES

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

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|-------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Aldicarb | 0.03 / 0.09 | ≥ LOD | N/A | ND | PASS |
| Carbofuran | 0.01 / 0.04 | ≥ LOD | N/A | ND | PASS |
| Chlordane* | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Chlorfenapyr* | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| Chlorpyrifos | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Coumaphos | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Daminozide | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| DDVP (Dichlorvos) | 0.02 / 0.07 | ≥ LOD | N/A | ND | PASS |
| Dimethoate | 0.02 / 0.07 | ≥ LOD | N/A | ND | PASS |
| Ethoprop(hos) | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Etofenprox | 0.02 / 0.05 | ≥ LOD | N/A | ND | PASS |
| Fenoxycarb | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Fipronil | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Imazalil | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Methiocarb | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Methyl parathion | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| Mevinphos | 0.03 / 0.09 | ≥ LOD | N/A | ND | PASS |
| Paclobutrazol | 0.02 / 0.05 | ≥ LOD | N/A | ND | PASS |
| Propoxur | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Spiroxamine | 0.02 / 0.05 | ≥ LOD | N/A | ND | PASS |
| Thiacloprid | 0.03 / 0.07 | ≥ LOD | N/A | ND | PASS |

CATEGORY 2 PESTICIDE TEST RESULTS - 06/04/2020  **PASS**

| | | | | | |
|---------------------|-------------|-----|-----|----|------|
| Abamectin | 0.03 / 0.10 | 0.3 | N/A | ND | PASS |
| Acephate | 0.01 / 0.04 | 5 | N/A | ND | PASS |
| Acequinocyl | 0.02 / 0.05 | 4 | N/A | ND | PASS |
| Acetamiprid | 0.02 / 0.05 | 5 | N/A | ND | PASS |
| Azoxystrobin | 0.01 / 0.04 | 40 | N/A | ND | PASS |
| Bifenazate | 0.01 / 0.02 | 5 | N/A | ND | PASS |
| Bifenthrin | 0.01 / 0.02 | 0.5 | N/A | ND | PASS |
| Boscalid | 0.02 / 0.06 | 10 | N/A | ND | PASS |
| Captan | 0.2 / 0.5 | 5 | N/A | ND | PASS |
| Carbaryl | 0.01 / 0.02 | 0.5 | N/A | ND | PASS |
| Chlorantraniliprole | 0.01 / 0.03 | 40 | N/A | ND | PASS |

Continued on next page





Pesticide Analysis *Continued*

CATEGORY 2 PESTICIDE TEST RESULTS - 06/04/2020 *continued* ✔ PASS

CATEGORY 1 AND 2 PESTICIDES

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

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Clofentezine | 0.02 / 0.06 | 0.5 | N/A | ND | PASS |
| Cyfluthrin | 0.1 / 0.4 | 1 | N/A | ND | PASS |
| Cypermethrin | 0.1 / 0.3 | 1 | N/A | ND | PASS |
| Diazinon | 0.01 / 0.04 | 0.2 | N/A | ND | PASS |
| Dimethomorph | 0.01 / 0.03 | 20 | N/A | ND | PASS |
| Etoxazole | 0.010 / 0.028 | 1.5 | N/A | ND | PASS |
| Fenhexamid | 0.02 / 0.1 | 10 | N/A | ND | PASS |
| Fenpyroximate | 0.03 / 0.08 | 2 | N/A | ND | PASS |
| Flonicamid | 0.01 / 0.04 | 2 | N/A | ND | PASS |
| Fludioxonil | 0.03 / 0.08 | 30 | N/A | ND | PASS |
| Hexythiazox | 0.01 / 0.04 | 2 | N/A | ND | PASS |
| Imidacloprid | 0.01 / 0.04 | 3 | N/A | ND | PASS |
| Kresoxim-methyl | 0.02 / 0.07 | 1 | N/A | ND | PASS |
| Malathion | 0.02 / 0.05 | 5 | N/A | ND | PASS |
| Metalaxyl | 0.02 / 0.06 | 15 | N/A | ND | PASS |
| Methomyl | 0.03 / 0.1 | 0.1 | N/A | ND | PASS |
| Myclobutanil | 0.03 / 0.1 | 9 | N/A | ND | PASS |
| Naled | 0.03 / 0.1 | 0.5 | N/A | ND | PASS |
| Oxamyl | 0.02 / 0.06 | 0.2 | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.03 / 0.09 | 0.2 | N/A | ND | PASS |
| Permethrin | 0.03 / 0.09 | 20 | N/A | ND | PASS |
| Phosmet | 0.03 / 0.10 | 0.2 | N/A | ND | PASS |
| Piperonylbutoxide | 0.003 / 0.009 | 8 | N/A | ND | PASS |
| Prallethrin | 0.03 / 0.08 | 0.4 | N/A | ND | PASS |
| Propiconazole | 0.01 / 0.03 | 20 | N/A | ND | PASS |
| Pyrethrins | 0.03 / 0.08 | 1 | N/A | ND | PASS |
| Pyridaben | 0.006 / 0.019 | 3 | N/A | ND | PASS |
| Spinetoram | 0.02 / 0.07 | 3 | N/A | ND | PASS |
| Spinosad | 0.02 / 0.06 | 3 | N/A | ND | PASS |
| Spiromesifen | 0.02 / 0.05 | 12 | N/A | ND | PASS |
| Spirotetramat | 0.01 / 0.02 | 13 | N/A | ND | PASS |
| Tebuconazole | 0.02 / 0.07 | 2 | N/A | ND | PASS |
| Thiamethoxam | 0.03 / 0.08 | 4.5 | N/A | ND | PASS |
| Trifloxystrobin | 0.01 / 0.03 | 30 | N/A | ND | PASS |



 **Residual Solvents Analysis**


CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 06/04/2020  **PASS**

CATEGORY 1 AND 2 RESIDUAL SOLVENTS

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


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

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------|----------------|---------------------|--------------------------------|---------------|--------|
| 1,2-Dichloroethane | 0.05 / 0.1 | 1 | N/A | ND | PASS |
| Benzene | 0.03 / 0.09 | 1 | N/A | ND | PASS |
| Chloroform | 0.1 / 0.2 | 1 | N/A | ND | PASS |
| Ethylene Oxide | 0.1 / 0.4 | 1 | N/A | ND | PASS |
| Methylene chloride | 0.3 / 0.9 | 1 | N/A | ND | PASS |
| Trichloroethylene | 0.1 / 0.3 | 1 | N/A | ND | PASS |

CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 06/04/2020  **PASS**

| | | | | | |
|-------------------|----------|------|-----|------|------|
| Acetone | 20 / 50 | 5000 | N/A | ND | PASS |
| Acetonitrile | 2 / 7 | 410 | N/A | ND | PASS |
| Butane | 10 / 50 | 5000 | N/A | ND | PASS |
| Ethanol | 20 / 50 | 5000 | N/A | ND | PASS |
| Ethyl acetate | 20 / 60 | 5000 | N/A | ND | PASS |
| Ethyl ether | 20 / 50 | 5000 | N/A | ND | PASS |
| Heptane | 20 / 60 | 5000 | N/A | ND | PASS |
| Hexane | 2 / 5 | 290 | N/A | ND | PASS |
| Isopropyl Alcohol | 10 / 40 | 5000 | N/A | <LOQ | PASS |
| Methanol | 50 / 200 | 3000 | N/A | ND | PASS |
| Pentane | 20 / 50 | 5000 | N/A | ND | PASS |
| Propane | 10 / 20 | 5000 | N/A | ND | PASS |
| Toluene | 7 / 21 | 890 | N/A | ND | PASS |
| Total Xylenes | 50 / 160 | 2170 | N/A | ND | PASS |

 **Heavy Metals Analysis**

HEAVY METALS TEST RESULTS - 06/03/2020  **PASS**

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

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

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|----------|----------------|---------------------|--------------------------------|---------------|--------|
| Cadmium | 0.02 / 0.05 | 0.5 | N/A | ND | PASS |
| Lead | 0.04 / 0.1 | 0.5 | N/A | <LOQ | PASS |
| Arsenic | 0.02 / 0.1 | 1.5 | N/A | ND | PASS |
| Mercury | 0.002 / 0.01 | 3 | N/A | ND | PASS |





Microbial Impurities Analysis
 PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

Method: QSP - (1221) Analysis of Microbial Impurities

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbial impurities.

Method: QSP - (6794) Plating with 3M™ Petrifilm™

MICROBIAL IMPURITIES TEST RESULTS (PCR) - 06/04/2020 ✔ PASS

| COMPOUND | ACTION LIMIT | RESULT | RESULT |
|---|--------------|--------|--------|
| Shiga toxin-producing <i>Escherichia coli</i> | Detect | ND | PASS |
| <i>Salmonella</i> spp. | Detect | ND | PASS |
| <i>Aspergillus fumigatus</i> | Detect | ND | PASS |
| <i>Aspergillus flavus</i> | Detect | ND | PASS |
| <i>Aspergillus niger</i> | Detect | ND | PASS |
| <i>Aspergillus terreus</i> | Detect | ND | PASS |

MICROBIAL IMPURITIES TEST RESULTS (PLATING)

| COMPOUND | RESULT (cfu/g) |
|----------------------|----------------|
| Aerobic Plate Count | NT |
| Total Yeast and Mold | NT |

