

**Certificate of Analysis**

Produced: Mar 07, 2025

**Sample:** Iced Tea & Lemonade (Edible Liquid) • **Client:** Hop the Wave, 38 Evergreen Drive, Portland, ME 04103  
FDA Registration Number: 15349051600



**Batch No.:** 022625  
**Matrix:** Edible Liquid  
**Density:** 1.00984 g/ml  
**Sample ID:** ICC-250306-06-001  
**Collected on:** Mar 06, 2025  
**Received on:** Mar 06, 2025  
**Sample Size:** 1 Units  
**Received By:** Melissa Jamrus  
**Package Size:** 365.41 g  
**Serving Size:** 365.41 g

**Tests Taken****Potency****Cannabinoid Overview**

|                             |                    |
|-----------------------------|--------------------|
| <b>Total THC:</b>           | <b>4.97 mg/srv</b> |
| <b>Total CBD:</b>           | <b>5.15 mg/srv</b> |
| <b>Total Cannabinoids:</b>  | <b>10.1 mg/srv</b> |
| <b>Sum of Cannabinoids:</b> | <b>10.1 mg/srv</b> |

**POT-INST-005: POT-INST-005: Potency • Mar 07, 2025**

| Analyte | Amt (mg/srv) | Amt (mg/pkg) | Amt (%) | Amt (mg/ml) | LOD/LOQ (mg/g)   | Analyte            | Amt (mg/srv) | Amt (mg/pkg) | Amt (%) | Amt (mg/ml) | LOD/LOQ (mg/g)   |
|---------|--------------|--------------|---------|-------------|------------------|--------------------|--------------|--------------|---------|-------------|------------------|
| CBC     |              |              | ND      | ND          | 0.00111/0.00331  | CBT                |              |              | ND      | ND          | 0.000479/0.00167 |
| CBD     | 5.15         | 5.15         | 0.00141 | 0.0142      | 0.000338/0.00167 | $\Delta^8$ -THC    |              |              | ND      | ND          | 0.000271/0.00167 |
| CBDA    |              |              | ND      | ND          | 0.000808/0.00242 | $\Delta^9$ -THC    | 4.97         | 4.97         | 0.00136 | 0.0137      | 0.000447/0.00167 |
| CBDV    |              |              | ND      | ND          | 0.000268/0.00167 | THCA               |              |              | ND      | ND          | 0.000615/0.00184 |
| CBG     |              |              | ND      | ND          | 0.000382/0.00167 | THCV               |              |              | ND      | ND          | 0.000207/0.00167 |
| CBGA    |              |              | ND      | ND          | 0.000596/0.00179 | <b>Total THC**</b> | 4.97         | 4.97         | 0.00136 | 0.0137      |                  |
| CBL     |              |              | ND      | ND          | 0.000264/0.00167 | <b>Total CBD**</b> | 5.15         | 5.15         | 0.00141 | 0.0142      |                  |
| CBN     |              |              | ND      | ND          | 0.000382/0.00167 |                    |              |              |         |             |                  |

\*\* Total THC =  $\Delta^8$ -THC +  $\Delta^9$ -THC + ( $\Delta^8$ -THCA  $\times$  0.877) +  $\Delta^9$ -THC + THC-O-acetate + (THCA  $\times$  0.877)

\*\* Total CBD = CBD + (CBDA  $\times$  0.877)

NR= Not Reported, ND= Not Detected, \*Reported by Dry Mass\*; \*analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope\* \*Density tested at a temperature range between 19-24 °C, \*Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All California State Compliant samples sampled using SAMPL-SOP-001. Compliance requirements for this test are taken from California CDPH Hemp regulations.



## Certificate of Analysis

Produced: Mar 12, 2025

Sample: Half & Half (Edible Liquid) • Client: Hop the Wave • Batch: **Pass**

**Batch No.:** 022625  
**Matrix:** Edible Liquid  
**Sample ID:** ICC-250306-06-004  
**Collected on:** Mar 06, 2025  
**Received on:** Mar 06, 2025  
**Sample Size:** 1 Units  
**Received By:** Melissa Jamrus  
**Package Size:** 365.99 g  
**Serving Size:** 365.99 g

**Batch Result:** **Pass**

|                  |      |                   |      |
|------------------|------|-------------------|------|
| <b>Solvents</b>  | Pass | <b>Mycotoxins</b> | Pass |
| <b>Metals</b>    | Pass | <b>Pesticides</b> | Pass |
| <b>Microbial</b> | Pass | <b>Foreign</b>    | Pass |

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## RS-INST-003, RS-PREP-001: RS-INST-003, RS-PREP-001: Residual Solvents by GC-MS • Mar 07, 2025

| Analyte            | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/ml) | Pass/Fail | Analyte            | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/ml) | Pass/Fail |
|--------------------|--------------|------------|-----------------|-----------|--------------------|--------------|------------|-----------------|-----------|
| 1,2-Dichloroethane | 1            | ND         | 0.165/0.503     | Pass      | Hexane             | 290          | ND         | 0.0652/0.278    | Pass      |
| Acetone            | 5000         | ND         | 16.9/50.7       | Pass      | Isopropyl alcohol  | 5000         | ND         | 1.27/3.80       | Pass      |
| Acetonitrile       | 410          | ND         | 0.119/0.355     | Pass      | Methanol           | 3000         | ND         | 2.94/8.81       | Pass      |
| Benzene            | 1            | ND         | 0.0208/0.0632   | Pass      | Methylene chloride | 1            | ND         | 0.126/0.721     | Pass      |
| Butane             | 5000         | ND         | 0.960/4.79      | Pass      | Pentane            | 5000         | ND         | 0.951/4.22      | Pass      |
| Chloroform         | 1            | ND         | 0.0356/0.107    | Pass      | Propane            | 5000         | ND         | 4.38/13.1       | Pass      |
| Ethanol            | 5000         | 220        | 2.58/7.75       | Pass      | Toluene            | 890          | ND         | 0.0870/0.854    | Pass      |
| Ethyl acetate      | 5000         | ND         | 0.309/2.26      | Pass      | Trichloroethylene  | 1            | ND         | 0.0178/0.143    | Pass      |
| Ethylene oxide     | 1            | ND         | 0.151/0.572     | Pass      | o-Xylene           |              | ND         | 0.0995/0.847    | N/A       |
| Ethyl ether        | 5000         | ND         | 1.17/3.51       | Pass      | p- and m-Xylene    |              | ND         | 0.114/1.70      | N/A       |
| Heptane            | 5000         | ND         | 0.679/2.83      | Pass      | Total xylenes      | 2170         | ND         | 0.0168/0.143    | Pass      |

## HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS • Mar 07, 2025

| Analyte | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g)  | Pass/Fail | Analyte | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g)  | Pass/Fail |
|---------|--------------|------------|-----------------|-----------|---------|--------------|------------|-----------------|-----------|
| Arsenic | 1.5          | < LOQ      | 0.00300/0.00900 | Pass      | Lead    | 0.5          | ND         | 0.00100/0.00400 | Pass      |
| Cadmium | 0.5          | ND         | 0.00100/0.00200 | Pass      | Mercury | 3            | ND         | 0.00500/0.0140  | Pass      |



**MICRO-008, MICRO-INST-001, MICRO-PREP-001: MICRO-008, MICRO-INST-001, MICRO-PREP-001: PCR-Microbial (noninhalable)  
• Mar 07, 2025**

| Analyte         | Amt | Pass/Fail | Analyte                       | Amt | Pass/Fail |
|-----------------|-----|-----------|-------------------------------|-----|-----------|
| Salmonella spp. | ND  | Pass      | Shiga toxin-producing E. coli | ND  | Pass      |

**Petrifilm-Listeria • Mar 12, 2025**

| Analyte       | Amt | Pass/Fail |
|---------------|-----|-----------|
| Listeria spp. | ND  | N/A       |

**MICR-002: MICR-002: Petrifilm-Aerobic • Mar 12, 2025**

| Analyte          | Amt | Pass/Fail |
|------------------|-----|-----------|
| Aerobic Bacteria | ND  | N/A       |

**MICR-002: MICR-002: Petrifilm-Coliforms • Mar 12, 2025**

| Analyte   | Amt | Pass/Fail |
|-----------|-----|-----------|
| Coliforms | ND  | N/A       |

**Petrifilm-E. Coli • Mar 12, 2025**

| Analyte          | Amt | Pass/Fail |
|------------------|-----|-----------|
| Escherichia coli | ND  | N/A       |

**MICR-005, MICR-006: MICR-005, MICR-006: Petrifilm-Rapid Yeast & Mold • Mar 12, 2025**

| Analyte      | Amt | Pass/Fail |
|--------------|-----|-----------|
| Yeast & Mold | ND  | N/A       |

**MICR-002: MICR-002: Petrifilm-Salmonella • Mar 12, 2025**

| Analyte         | Amt | Pass/Fail |
|-----------------|-----|-----------|
| Salmonella spp. | ND  | Pass      |

**PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • Mar 10, 2025**

| Analyte      | Limit (µg/kg) | Amt (µg/kg) | LOD/LOQ (µg/kg) | Pass/Fail | Analyte      | Limit (µg/kg) | Amt (µg/kg) | LOD/LOQ (µg/kg) | Pass/Fail |
|--------------|---------------|-------------|-----------------|-----------|--------------|---------------|-------------|-----------------|-----------|
| Aflatoxin B1 |               | ND          | 2.60/7.88       | N/A       | Aflatoxin G2 |               | ND          | 1.89/5.72       | N/A       |
| Aflatoxin B2 |               | ND          | 2.04/6.18       | N/A       | Aflatoxins   | 20            | ND          |                 | Pass      |
| Aflatoxin G1 |               | ND          | 2.97/8.99       | N/A       | Ochratoxin A | 20            | ND          | 3.87/11.7       | Pass      |



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**PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Pesticide Analysis by LC-MS/MS • Mar 10, 2025**

| Analyte             | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail | Analyte                 | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---------------------|--------------|------------|----------------|-----------|-------------------------|--------------|------------|----------------|-----------|
| Abamectin           | 0.3          | ND         | 0.0500/0.100   | Pass      | Malathion               | 5            | ND         | 0.0117/0.0354  | Pass      |
| Abamectin Ba        |              | ND         | 0.0330/0.0990  | N/A       | Metalaxyl               | 15           | ND         | 0.0101/0.0306  | Pass      |
| Acephate            | 5            | ND         | 0.0164/0.0497  | Pass      | Methiocarb              | Any amt      | ND         | 0.0156/0.0473  | Pass      |
| Acequinocyl         | 4            | ND         | 0.0194/0.0587  | Pass      | Methomyl                | 0.1          | ND         | 0.0158/0.0479  | Pass      |
| Acetamiprid         | 5            | ND         | 0.0146/0.0442  | Pass      | Mevinphos               | Any amt      | ND         | 0.0139/0.0423  | Pass      |
| Aldicarb            | Any amt      | ND         | 0.0216/0.0654  | Pass      | Myclobutanil            | 9            | ND         | 0.0180/0.0546  | Pass      |
| Azoxystrobin        | 40           | ND         | 0.00960/0.0291 | Pass      | Naled                   | 0.5          | ND         | 0.0170/0.0514  | Pass      |
| Bifenazate          | 5            | ND         | 0.0115/0.0349  | Pass      | Oxamyl                  | 0.2          | ND         | 0.0153/0.0465  | Pass      |
| Bifenthrin          | 0.5          | ND         | 0.0130/0.0395  | Pass      | Paclobutrazol           | Any amt      | ND         | 0.0132/0.0400  | Pass      |
| Boscalid            | 10           | ND         | 0.0197/0.0596  | Pass      | Permethrin              | 20           | ND         | 0.00831/0.0300 | Pass      |
| Carbaryl            | 0.5          | ND         | 0.0160/0.0486  | Pass      | Permethrin cis          |              | ND         | 0.0200/0.0300  | N/A       |
| Carbofuran          | Any amt      | ND         | 0.00902/0.0300 | Pass      | Permethrin trans        |              | ND         | 0.0200/0.0300  | N/A       |
| Chlorantraniliprole | 40           | ND         | 0.0209/0.0632  | Pass      | Phosmet                 | 0.2          | ND         | 0.0125/0.0377  | Pass      |
| Chlorpyrifos        | Any amt      | ND         | 0.0176/0.0534  | Pass      | Piperonylbutoxide       | 8            | ND         | 0.00759/0.0300 | Pass      |
| Clofentezine        | 0.5          | ND         | 0.0129/0.0389  | Pass      | Prallethrin             | 0.4          | ND         | 0.0226/0.0685  | Pass      |
| Coumaphos           | Any amt      | ND         | 0.0185/0.0559  | Pass      | Propiconazole           | 20           | ND         | 0.0195/0.0590  | Pass      |
| Daminozide          | Any amt      | ND         | 0.0261/0.0791  | Pass      | Propoxur                | Any amt      | ND         | 0.0155/0.0471  | Pass      |
| Diazinon            | 0.2          | ND         | 0.00645/0.0300 | Pass      | Pyrethrins              | 1            | ND         | 0.00431/0.0300 | Pass      |
| Dichlorvos          | Any amt      | ND         | 0.0223/0.0674  | Pass      | Pyrethrins Pyrethrin I  |              | ND         | 0.0100/0.0450  | N/A       |
| Dimethoate          | Any amt      | ND         | 0.0118/0.0356  | Pass      | Pyrethrins Pyrethrin II |              | ND         | 0.0100/0.0300  | N/A       |
| Dimethomorph        | 20           | ND         | 0.0137/0.0416  | Pass      | Pyridaben               | 3            | ND         | 0.0115/0.0350  | Pass      |
| Ethoprophos         | Any amt      | ND         | 0.0174/0.0528  | Pass      | Spinetoram              | 3            | ND         | 0.00639/0.0300 | Pass      |
| Etofenprox          | Any amt      | ND         | 0.00849/0.0300 | Pass      | Spinetoram J            |              | ND         | 0.00500/0.0100 | N/A       |
| Etoxazole           | 1.5          | ND         | 0.00783/0.0300 | Pass      | Spinetoram L            |              | ND         | 0.00500/0.0100 | N/A       |
| Fenhexamid          | 10           | ND         | 0.0129/0.0392  | Pass      | Spinosad                | 3            | ND         | 0.00410/0.0300 | Pass      |
| Fenoxycarb          | Any amt      | ND         | 0.0144/0.0435  | Pass      | Spinosad A              |              | ND         | 0.00500/0.0100 | N/A       |
| Fenpyroximate       | 2            | ND         | 0.00972/0.0300 | Pass      | Spinosad D              |              | ND         | 0.00500/0.0100 | N/A       |
| Fipronil            | Any amt      | ND         | 0.0148/0.0447  | Pass      | Spiromesifen            | 12           | ND         | 0.0137/0.0416  | Pass      |
| Flonicamid          | 2            | ND         | 0.0268/0.0811  | Pass      | Spirotetramat           | 13           | ND         | 0.0134/0.0407  | Pass      |
| Fludioxonil         | 30           | ND         | 0.0153/0.0464  | Pass      | Spiroxamine             | Any amt      | ND         | 0.0106/0.0320  | Pass      |
| Hexythiazox         | 2            | ND         | 0.0257/0.0778  | Pass      | Tebuconazole            | 2            | ND         | 0.0144/0.0437  | Pass      |
| Imazalil            | Any amt      | ND         | 0.0156/0.0474  | Pass      | Thiacloprid             | Any amt      | ND         | 0.0139/0.0421  | Pass      |
| Imidacloprid        | 3            | ND         | 0.0235/0.0711  | Pass      | Thiamethoxam            | 4.5          | ND         | 0.0181/0.0549  | Pass      |
| Kresoxim-methyl     | 1            | ND         | 0.0125/0.0379  | Pass      | Trifloxystrobin         | 30           | ND         | 0.0102/0.0310  | Pass      |

**PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS • Mar 10, 2025**

| Analyte      | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail | Analyte                 | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|--------------|--------------|------------|----------------|-----------|-------------------------|--------------|------------|----------------|-----------|
| Captan       | 5            | ND         | 0.120/0.358    | Pass      | Cypermethrin            | 1            | ND         | 0.0145/0.0435  | Pass      |
| Chlordane    | Any amt      | ND         | 0.0249/0.0747  | Pass      | Methyl parathion        | Any amt      | ND         | 0.00811/0.0243 | Pass      |
| Chlorfenapyr | Any amt      | ND         | 0.0251/0.0753  | Pass      | Pentachloronitrobenzene | 0.2          | ND         | 0.0182/0.0545  | Pass      |
| Cyfluthrin   | 1            | ND         | 0.0186/0.0558  | Pass      |                         |              |            |                |           |



*DM*