

3903 Fortune Blvd  
Saginaw, MI 48603  
Email: [tox@mitoxicology.com](mailto:tox@mitoxicology.com)  
Phone: 989.502.2233

# Certificate of Analysis

Adult Use License #: AU-SC-000132

Medical License #: SC-000036



**Producer Name:** Havi Consortium LLC

**Producer License No:** AU-G-C-001083

**Product Type:** Adult-Use

**Producer:** Cultivator

**Sample ID:** SAM-1732

**Sample Name:** Key Lime Cherries

**Sample Matrix:** Raw Plant Material

**Sample Type:** Raw Plant Material

**Sample Date:** 10/08/2024

**Metrc Batch No:** 1A405030003A662000000888

**Metrc Test Sample Pkg:** 1A405030003A662000000890

**Batch/Sample Size:** 2930 / 15.22 grams

**Client Name:** Havi Consortium LLC

33842 88th Ave

Lawton, MI 49065

Phone: 269-615-5893

**License Number:** AU-G-C-001083

## Potency By: HPLC 2 Date Complete: 10/10/24

| Analyte | mg/g    | %      | LOD/LOQ (mg/g) | Comments |
|---------|---------|--------|----------------|----------|
| CBDV    | 0.043   | 0.004  | 0.006/0.040    |          |
| THCV    | 0.094   | 0.009  | 0.006/0.040    |          |
| CBD     | 2.359   | 0.236  | 0.006/0.040    |          |
| CBG     | 0.919   | 0.092  | 0.006/0.040    |          |
| CBDA    | 0.519   | 0.052  | 0.005/0.040    |          |
| CBGA    | 2.270   | 0.227  | 0.006/0.040    |          |
| CBN     | <LOQ    | <LOQ   | 0.006/0.040    |          |
| 9-THC   | 2.238   | 0.224  | 0.004/0.040    |          |
| 8-THC   | <LOQ    | <LOQ   | 0.006/0.040    |          |
| CBC     | 0.658   | 0.066  | 0.006/0.040    |          |
| THCA    | 309.384 | 30.938 | 0.007/0.040    |          |

| Totals    | Result (mg/g) | Result (%) |
|-----------|---------------|------------|
| Total THC | 273.606       | 27.361     |
| Total CBD | 2.814         | 0.281      |



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Total Cannabinoids 280.147 28.015

Total THC = Mass( $\Delta 8$  THC) + Mass ( $\Delta 9$  THC) + [0.877 x Mass( $\Delta 9$  THCA)]

Total CBD = Mass(CBD) + [0.877 x Mass (CBDA)]

## Microbials - Qualitative By: qPCR Date Complete: 10/11/24

| Analyte                             | Result (CFU/g) | Action Limit           | Status | Comments |
|-------------------------------------|----------------|------------------------|--------|----------|
| Shiga toxin-producing E.coli (STEC) | Not Detected   | Not Detected in 1 gram | PASS   |          |
| Salmonella specific gene            | Not Detected   | Not Detected in 1 gram | PASS   |          |
| Aspergillus spp                     | Not Detected   | Not Detected in 1 gram | PASS   |          |
| Aspergillus flavus                  | Not Detected   | Not Detected in 1 gram | PASS   |          |
| Aspergillus fumigatus               | Not Detected   | Not Detected in 1 gram | PASS   |          |
| Aspergillus niger                   | Not Detected   | Not Detected in 1 gram | PASS   |          |
| Aspergillus terreus                 | Not Detected   | Not Detected in 1 gram | PASS   |          |

## Microbials - Quantitative By: Petrifilm Date Complete: 10/11/24

| Analytes           | Result (CFU/g) | Action Limit (CFU/G) | Status | Comments |
|--------------------|----------------|----------------------|--------|----------|
| Total Yeast & Mold | ND             | 100000               | PASS   |          |
| Total Coliform     | ND             | 1000                 | PASS   |          |

## Chemical Residue by LCMS By: Date Complete: 10/12/24

| Analyte      | Result (ppm) | LOD (ppm) | LOQ (ppm) | Action Limit (ppm) | Status | Comments |
|--------------|--------------|-----------|-----------|--------------------|--------|----------|
| Abamectin    | ND           | 0.025     | 0.050     | 0.500              | PASS   |          |
| Acephate     | ND           | 0.025     | 0.050     | 0.400              | PASS   |          |
| Acequinocyl  | ND           | 0.025     | 0.050     | 2.000              | PASS   |          |
| Acetamiprid  | ND           | 0.025     | 0.050     | 0.200              | PASS   |          |
| Aldicarb     | ND           | 0.025     | 0.050     | 0.400              | PASS   |          |
| Azoxystrobin | ND           | 0.025     | 0.050     | 0.200              | PASS   |          |
| Bifenazate   | ND           | 0.025     | 0.050     | 0.200              | PASS   |          |



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| Bifenthrin          | ND | 0.025 | 0.050 | 0.200 | PASS |
| Boscalid            | ND | 0.025 | 0.050 | 0.400 | PASS |
| Carbaryl            | ND | 0.025 | 0.050 | 0.200 | PASS |
| Carbofuran          | ND | 0.025 | 0.050 | 0.200 | PASS |
| Chlorantraniliprole | ND | 0.025 | 0.050 | 0.200 | PASS |
| Chlorpyrifos        | ND | 0.025 | 0.050 | 0.200 | PASS |
| Clofentezine        | ND | 0.025 | 0.050 | 0.200 | PASS |
| Daminozide          | ND | 0.025 | 0.050 | 1.000 | PASS |
| DDVP (Dichlorvos)   | ND | 0.025 | 0.050 | 1.000 | PASS |
| Diazinon            | ND | 0.025 | 0.050 | 0.200 | PASS |
| Dimethoate          | ND | 0.025 | 0.050 | 0.200 | PASS |
| Ethoprophos         | ND | 0.025 | 0.050 | 0.200 | PASS |
| Etofenprox          | ND | 0.025 | 0.050 | 0.400 | PASS |
| Etoxazole           | ND | 0.025 | 0.050 | 0.200 | PASS |
| Fenoxycarb          | ND | 0.025 | 0.050 | 0.200 | PASS |
| Fenpyroximate       | ND | 0.025 | 0.050 | 0.400 | PASS |
| Fipronil            | ND | 0.025 | 0.050 | 0.400 | PASS |
| Flonicamid          | ND | 0.025 | 0.050 | 1.000 | PASS |
| Fludioxonil         | ND | 0.025 | 0.050 | 0.400 | PASS |
| Hexythiazox         | ND | 0.025 | 0.050 | 1.000 | PASS |
| Imazalil            | ND | 0.025 | 0.050 | 0.200 | PASS |
| Imidacloprid        | ND | 0.025 | 0.050 | 0.400 | PASS |
| Kresoxim Methyl     | ND | 0.025 | 0.050 | 0.400 | PASS |
| Malathion           | ND | 0.025 | 0.050 | 0.200 | PASS |
| Metalaxyl           | ND | 0.025 | 0.050 | 0.200 | PASS |
| Methiocarb          | ND | 0.025 | 0.050 | 0.200 | PASS |
| Methomyl            | ND | 0.025 | 0.050 | 0.400 | PASS |



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| MGK-264         | ND | 0.025 | 0.050 | 0.200 | PASS |
| Myclobutanil    | ND | 0.025 | 0.050 | 0.200 | PASS |
| Naled           | ND | 0.005 | 0.050 | 0.500 | PASS |
| Oxamyl          | ND | 0.025 | 0.050 | 1.000 | PASS |
| Paclobutrazol   | ND | 0.025 | 0.050 | 0.400 | PASS |
| Permethrin*     | ND | 0.025 | 0.050 | 0.200 | PASS |
| Phosmet         | ND | 0.025 | 0.050 | 0.200 | PASS |
| Prallethrin     | ND | 0.025 | 0.050 | 0.200 | PASS |
| Propiconazole   | ND | 0.025 | 0.050 | 0.400 | PASS |
| Propoxur        | ND | 0.025 | 0.050 | 0.200 | PASS |
| Pyrethrins**    | ND | 0.015 | 0.029 | 1.000 | PASS |
| Pyridaben       | ND | 0.019 | 0.050 | 0.200 | PASS |
| Spinosad        | ND | 0.025 | 0.050 | 0.200 | PASS |
| Spiromesifen    | ND | 0.025 | 0.050 | 0.200 | PASS |
| Spirotetramat   | ND | 0.025 | 0.050 | 0.200 | PASS |
| Spiroxamine     | ND | 0.025 | 0.050 | 0.400 | PASS |
| Tebuconazole    | ND | 0.025 | 0.050 | 0.400 | PASS |
| Thiacloprid     | ND | 0.025 | 0.050 | 0.200 | PASS |
| Thiamethoxam    | ND | 0.025 | 0.050 | 0.200 | PASS |
| Trifloxystrobin | ND | 0.025 | 0.050 | 0.200 | PASS |

\*Permethrins are measured as a cumulative residue of cis- and trans-permethrin isomers

\*\*Pyrethrins are measured as a cumulative residue of Pyrethrin 1, Cinerin 1, and Jasmolin 1

## Chemical Residue by GCMS By: GCMSMS 3 Date Complete: 10/11/24

| Analyte      | Result (ppm) | LOD (ppm) | LOQ (ppm) | Action Limit (ppm) | Status | Comments |
|--------------|--------------|-----------|-----------|--------------------|--------|----------|
| Chlorfenapyr | ND           | 0.00021   | 0.050     | 1.000              | PASS   |          |
| Cyfluthrin   | ND           | 0.00005   | 0.050     | 1.000              | PASS   |          |



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|-----------------|----|---------|-------|-------|------|
| Cypermethrin    | ND | 0.00014 | 0.050 | 1.000 | PASS |
| Methylparathion | ND | 0.00005 | 0.050 | 0.200 | PASS |

## Heavy Metals By: ICP-MS Date Complete: 10/10/24

| Analyte           | Result (ppm) | LOD (ppm) | LOQ (ppm) | Action Limit (ppm) | Status | Comments |
|-------------------|--------------|-----------|-----------|--------------------|--------|----------|
| Total Chromium    | ND           | 0.005     | 0.050     | 1.200              | Pass   |          |
| Nickel            | 0.114        | 0.005     | 0.050     | 1.000              | Pass   |          |
| Inorganic Arsenic | ND           | 0.003     | 0.050     | 0.400              | Pass   |          |
| Cadmium           | <LOQ         | 0.003     | 0.050     | 0.400              | Pass   |          |
| Mercury           | ND           | 0.001     | 0.010     | 0.200              | Pass   |          |
| Lead              | ND           | 0.001     | 0.050     | 1.000              | Pass   |          |

## Foreign Matter Inspection By: Scope Date Complete: 10/09/24

| Analyte          | Result (%) | Limit (%) | Status | Comments |
|------------------|------------|-----------|--------|----------|
| Inorganic Matter | ND         | Any       | PASS   |          |
| Organic Matter   | ND         | 2         | PASS   |          |
| Stems            | ND         | 5         | PASS   |          |

## Water Activity By: Water Activity Meter Date Complete: 10/09/24

| Analyte | Result | Limit | Status | Comment |
|---------|--------|-------|--------|---------|
| Aw      | 0.427  | 0.65  | PASS   |         |

## Terpene By: GCMS 1 Date Complete: 10/10/24

| Analyte        | Result (mg/g) | Result (%) | LOD (ug/g) | LOQ (ug/g) | Action Limit | Status | Comments |
|----------------|---------------|------------|------------|------------|--------------|--------|----------|
| Total Terpenes | 24.379        | 2.437      |            |            | N/A          | N/A    |          |
| a-Pinene       | 0.443         | 0.044      | 41.25      | 125        | N/A          | N/A    |          |
| Camphene       | 0.173         | 0.017      | 41.25      | 125        | N/A          | N/A    |          |



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|----------------------|-------|-------|-------|------|-----|-----|
| B-Pinene             | 0.814 | 0.081 | 41.25 | 125  | N/A | N/A |
| B-Myrcene            | 1.246 | 0.125 | 41.25 | 125  | N/A | N/A |
| trans-Beta-Ocimene   | ND    | ND    | 14.03 | 42.5 | N/A | N/A |
| γ-Terpineol          | 0.218 | 0.022 | 9.03  | 125  | N/A | N/A |
| Limonene             | 5.028 | 0.503 | 41.25 | 125  | N/A | N/A |
| α-Terpineol          | 0.675 | 0.067 | 29.11 | 88.2 | N/A | N/A |
| Camphor              | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Terpinolene          | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Linalool             | 3.998 | 0.400 | 41.25 | 125  | N/A | N/A |
| Isopulegol           | 1.313 | 0.131 | 41.25 | 125  | N/A | N/A |
| Nerol                | ND    | ND    | 41.25 | 250  | N/A | N/A |
| Geraniol             | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Pulegone             | ND    | ND    | 41.25 | 125  | N/A | N/A |
| E-Caryophyllene      | 6.830 | 0.683 | 41.25 | 125  | N/A | N/A |
| α-Humulene           | 1.568 | 0.157 | 41.25 | 125  | N/A | N/A |
| Valencene            | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Nerolidol            | 0.814 | 0.081 | 41.25 | 125  | N/A | N/A |
| Guaiol               | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Carophyllene Oxide   | 0.348 | 0.035 | 41.25 | 125  | N/A | N/A |
| α-Bisabolol          | 0.778 | 0.078 | 41.25 | 125  | N/A | N/A |
| Eucalyptol           | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Sabinene             | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Sabinene Hydrate     | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Endo-Fenchyl Alcohol | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Isoborneol           | ND    | ND    | 41.25 | 125  | N/A | N/A |
| Menthol              | ND    | ND    | 41.25 | 125  | N/A | N/A |
| [+/-]-Borneol        | 0.133 | 0.013 | 82.5  | 125  | N/A | N/A |



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| a-Cedrene        | ND | ND | 41.25 | 125  | N/A | N/A |
| Geranyl Acetate  | ND | ND | 41.25 | 125  | N/A | N/A |
| Cedrol           | ND | ND | 41.25 | 125  | N/A | N/A |
| Farnesene        | ND | ND | 41.25 | 25   | N/A | N/A |
| delta-3-Carene   | ND | ND | 41.25 | 125  | N/A | N/A |
| [+/-]-Fenchone   | ND | ND | 41.25 | 125  | N/A | N/A |
| cis-Beta-Ocimene | ND | ND | 27.23 | 82.5 | N/A | N/A |
| y-Terpinene      | ND | ND | 41.25 | 125  | N/A | N/A |
| a-Terpinene      | ND | ND | 41.25 | 125  | N/A | N/A |



Kaitlyn L Quarford, MLS (ASCP)  
Senior Analyst  
10/12/2024



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