



## Certificate of Analysis

Compliance Test

### Client Information:

**THD**  
163 McKenzie Rd  
MOORESVILLE, NC  
28115

### Manufacturing Facility:

Sun King Brewery  
135 N. College Ave.  
Indianapolis, IN 46202

### Batch Data:

Batch # 101320254  
Batch Date: 2025-10-13  
Extracted From: Hemp

### Order Details:

Test Reg State: Florida

### Food Permits:

State: IN - #18\_0361  
State: TX - #1001952

### Order #

THD251013-100001  
Order Date: 2025-10-13  
Sample # AAHD479

### Sampling Date:

2025-10-14  
Lab Batch Date: 2025-10-14  
Orig. Completion Date: 2025-10-22

Volume: 355 ml

### Net Weight per Serving:

355 ml  
Servings Per Package:  
1

Statement of Amendment: Updated Manufacturing Facility; Merging reports; • AAHE489



Product Image



**Potency  
Tested**



**Terpenes  
Tested**



**Heavy Metals  
Passed**



**Mycotoxins  
Passed**



**Pesticides  
Passed**



**Residual Solvents  
Passed**



**Pathogenic Microbiology  
Passed**



**Microbiology (qPCR)  
Passed**



### Potency Summary

|                           |                 |                         |                 |
|---------------------------|-----------------|-------------------------|-----------------|
| <b>Delta 9 THC</b>        | <b>0.00252%</b> | <b>Total Active CBD</b> | <b>&lt;LOQ</b>  |
| per Serving               | 8.95 mg         | per Serving             | 0.00 mg         |
| per Package               | 8.95 mg         | per Package             | 0.00 mg         |
| <b>Total CBG</b>          | <b>0.00509%</b> | <b>Total CBN</b>        | <b>&lt;LOQ</b>  |
| per Serving               | 18.1 mg         | per Serving             | 0.00 mg         |
| per Package               | 18.1 mg         | per Package             | 0.00 mg         |
| <b>Total Cannabinoids</b> | <b>0.00761%</b> | <b>Total Active THC</b> | <b>0.00252%</b> |
| per Serving               | 27.0 mg         | per Serving             | 8.95 mg         |
| per Package               | 27.0 mg         | per Package             | 8.95 mg         |



### Terpenes Summary

| Analyte | Result (mg/g) | (%) |
|---------|---------------|-----|
|---------|---------------|-----|

**Total Terpenes: 0.000%**

Detailed Terpenes Analysis is on the following page

Aixa Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.867), Total Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA \* 0.87), CBG Total = (CBGA \* 0.878) + CBG, CBN Total = (CBNA \* 0.876) + CBN, Total CBC = CBC + (CBCA \* 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta 8-THCP + Delta 9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample, (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. The results apply to the sample as received. Revised report- see statement of amendment above.

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Sample # AAHD479

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Lab Batch Date: 2025-10-14  
Orig. Completion Date: 2025-10-22

Volume: 355 ml

**Net Weight per Serving:**

355 ml  
Servings Per Package:  
1



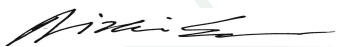
**Potency 25 (LCUV)**

Specimen Weight: 20000.000 mg

**Tested**

SOP13.030 (LCMS)

| Analyte               | Dilution<br>(1:n) | LOD<br>(mg/g) | LOQ<br>(%) | Result<br>(µg/ml) | (%)     | Per Serving<br>(mg) | Per Package<br>(mg) |
|-----------------------|-------------------|---------------|------------|-------------------|---------|---------------------|---------------------|
| CBG                   | 8.000             | 2.480000E-4   | 0.0015     | 50.9              | 0.00509 | 18.1                | 18.1                |
| Delta-9 THC           | 8.000             | 1.300000E-5   | 0.0015     | 25.2              | 0.00252 | 8.93                | 8.93                |
| CBC                   | 8.000             | 1.800000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBCA                  | 1.000             | 1.070000E-4   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBD                   | 8.000             | 5.400000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBDA                  | 8.000             | 1.000000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBDV                  | 8.000             | 6.500000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBDVA                 | 1.000             | 1.400000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBGA                  | 8.000             | 8.000000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBL                   | 1.000             | 3.500000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBN                   | 8.000             | 1.400000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBNA                  | 1.000             | 9.500000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| CBT                   | 1.000             | 2.000000E-4   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Delta-8 THC           | 8.000             | 2.600000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Delta-8 THC-O Acetate | 1.000             | 2.700000E-5   | 0.003      | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Delta-8 THCV          | 1.000             | 4.000000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Delta-9 THC-O Acetate | 1.000             | 7.700000E-5   | 0.003      | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Delta8-THCP           | 1.000             | 3.750000E-4   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Delta9-THCP           | 1.000             | 1.170000E-5   | 0.0012     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Exo-THC               | 1.000             | 2.300000E-4   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| THCA-A                | 8.000             | 3.200000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| THCB                  | 1.000             | 1.800000E-4   | 0.00195    | <LOQ              | <LOQ    | 0.00                | 0.00                |
| THCH                  | 1.000             | 3.500000E-4   | 0.00195    | <LOQ              | <LOQ    | 0.00                | 0.00                |
| THCV                  | 8.000             | 7.000000E-6   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| THCVA                 | 1.000             | 4.700000E-5   | 0.0015     | <LOQ              | <LOQ    | 0.00                | 0.00                |
| Total Active THC      | 8.000             |               |            | 25.0              | 0.00252 | 8.88                | 8.88                |
| Total Active CBD      | 8.000             |               |            | <LOQ              | <LOQ    | 0.00                | 0.00                |



Aixa Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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## Food Permits:

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State: TX - #1001952

## Order #

THD251013-100001  
Order Date: 2025-10-13  
Sample # AAHD479

## Sampling Date: 2025-10-14

Lab Batch Date: 2025-10-14  
Orig. Completion Date: 2025-10-22

Volume: 355 ml

## Net Weight per Serving:

355 ml  
Servings Per Package:  
1

| Terpenes                    |         |               |      | Tested                                  |         |               |      |
|-----------------------------|---------|---------------|------|-----------------------------------------|---------|---------------|------|
| Specimen Weight: 451.000 mg |         |               |      | SOP13.045 (GC-MS/GC (Liquid Injection)) |         |               |      |
| Dilution Factor: 1.000      |         |               |      |                                         |         |               |      |
| Analyte                     | LOQ (%) | Result (mg/g) | (%)  | Analyte                                 | LOQ (%) | Result (mg/g) | (%)  |
| (+)-Cedrol                  | 0.002   |               | <LOQ | Fenchyl Alcohol                         | 0.002   |               | <LOQ |
| (R)-(+)-Limonene            | 0.002   |               | <LOQ | Gamma-Terpinene                         | 0.002   |               | <LOQ |
| 3-Carene                    | 0.002   |               | <LOQ | Geraniol                                | 0.002   |               | <LOQ |
| alpha-Bisabolol             | 0.002   |               | <LOQ | Geranyl acetate                         | 0.002   |               | <LOQ |
| alpha-Cedrene               | 0.002   |               | <LOQ | Guaial                                  | 0.002   |               | <LOQ |
| alpha-Humulene              | 0.002   |               | <LOQ | Hexahydrothymol                         | 0.002   |               | <LOQ |
| alpha-Phellandrene          | 0.002   |               | <LOQ | Isoborneol                              | 0.002   |               | <LOQ |
| alpha-Pinene                | 0.002   |               | <LOQ | Isopulegol                              | 0.002   |               | <LOQ |
| alpha-Terpinene             | 0.002   |               | <LOQ | Linalool                                | 0.002   |               | <LOQ |
| beta-Myrcene                | 0.002   |               | <LOQ | Nerol                                   | 0.002   |               | <LOQ |
| beta-Pinene                 | 0.002   |               | <LOQ | Ocimene                                 | 0.00033 |               | <LOQ |
| Borneol                     | 0.004   |               | <LOQ | Pulegone                                | 0.002   |               | <LOQ |
| Camphene                    | 0.002   |               | <LOQ | Sabinene                                | 0.002   |               | <LOQ |
| Camphors                    | 0.006   |               | <LOQ | Sabinene Hydrate                        | 0.002   |               | <LOQ |
| Caryophyllene oxide         | 0.002   |               | <LOQ | Terpinolene                             | 0.002   |               | <LOQ |
| cis-Nerolidol               | 0.002   |               | <LOQ | Total Terpeneol                         | 0.00126 |               | <LOQ |
| Eucalyptol                  | 0.002   |               | <LOQ | trans-Caryophyllene                     | 0.002   |               | <LOQ |
| Farnesene                   | 0.002   |               | <LOQ | trans-Nerolidol                         | 0.002   |               | <LOQ |
| Fenchone                    | 0.002   |               | <LOQ | Valencene                               | 0.002   |               | <LOQ |

## PCR Total Yeast and Mold

Specimen Weight: 509.200 mg

Passed  
SOP13.017 (qPCR)

Dilution Factor: 1.000

| Analyte          | LOQ (cfu/g) | Action Level (cfu/g) | Result (cfu/g) |
|------------------|-------------|----------------------|----------------|
| Total Yeast/Mold | 1000        | 100000               | <LOQ           |

## Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1037.500 mg

Passed  
SOP13.019 (Micro Array)

Dilution Factor: 1.000

| Analyte               | Result (cfu/g) | Analyte      | Result (cfu/g) |
|-----------------------|----------------|--------------|----------------|
| Aspergillus flavus    | Absence in 1g  | E.Coli       | Absence in 1g  |
| Aspergillus fumigatus | Absence in 1g  | Salmonella   | Absence in 1g  |
| Aspergillus niger     | Absence in 1g  | STEC E. Coli | Absence in 1g  |
| Aspergillus terreus   | Absence in 1g  |              |                |

Aixa Sun Lab Director/Principal Scientist  
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Extracted From: Hemp

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Test Reg State: Florida

## Food Permits:

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THD251013-100001  
Order Date: 2025-10-13  
Sample # AAHD479

## Sampling Date: 2025-10-14

Lab Batch Date: 2025-10-14  
Orig. Completion Date: 2025-10-22

Volume: 355 ml

## Net Weight per Serving:

355 ml  
Servings Per Package:  
1

## Heavy Metals

Specimen Weight: 245.600 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 203

| Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Arsenic (As) | 4.830     | 100       | 1500               | <LOQ         | Lead (Pb)    | 11.760    | 100       | 500                | <LOQ         |
| Cadmium (Cd) | 0.640     | 100       | 500                | <LOQ         | Mercury (Hg) | 0.580     | 100       | 3000               | <LOQ         |



## Mycotoxins FL

Specimen Weight: 588.300 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.550

| Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Aflatoxin B1 | 0.304     | 4.9       | 20                 | <LOQ         | Aflatoxin G2 | 0.271     | 4.9       | 20                 | <LOQ         |
| Aflatoxin B2 | 0.077     | 4.9       | 20                 | <LOQ         | Ochratoxin A | 0.754     | 9.8       | 20                 | <LOQ         |
| Aflatoxin G1 | 0.304     | 4.9       | 20                 | <LOQ         |              |           |           |                    |              |



## Residual Solvents - FL (CBD)

Specimen Weight: 15.000 mg

Passed

SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

| Analyte            | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte            | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|-----------|--------------------|--------------|--------------------|-----------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 0.009     | 1.6       | 8                  | <LOQ         | Heptane            | 0.001     | 13.9      | 5000               | <LOQ         |
| 1,2-Dichloroethane | 0.000     | 0.4       | 2                  | <LOQ         | Hexane             | 0.068     | 11.7      | 250                | <LOQ         |
| Acetone            | 0.015     | 20.8      | 750                | <LOQ         | Isopropyl alcohol  | 0.005     | 13.9      | 500                | <LOQ         |
| Acetonitrile       | 0.060     | 11.7      | 60                 | <LOQ         | Methanol           | 0.001     | 6.9       | 250                | <LOQ         |
| Benzene            | 0.000     | 0.2       | 1                  | <LOQ         | Methylene chloride | 0.003     | 24.3      | 125                | <LOQ         |
| Butanes            | 0.417     | 25        | 5000               | <LOQ         | Pentane            | 0.037     | 20.8      | 750                | <LOQ         |
| Chloroform         | 0.000     | 0.4       | 2                  | <LOQ         | Propane            | 0.031     | 58.3      | 5000               | <LOQ         |
| Ethanol            | 0.002     | 27.8      | 5000               | <LOQ         | Toluene            | 0.001     | 29.2      | 150                | <LOQ         |
| Ethyl Acetate      | 0.001     | 11.1      | 400                | <LOQ         | Total Xylenes      | 0.000     | 29.2      | 150                | <LOQ         |
| Ethyl Ether        | 0.005     | 13.9      | 500                | <LOQ         | Trichloroethylene  | 0.001     | 4.9       | 25                 | <LOQ         |
| Ethylene Oxide     | 0.004     | 1         | 5                  | <LOQ         |                    |           |           |                    |              |

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**Pesticides Florida**

Specimen Weight: 588.300 mg

**Passed**

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.550

| Analyte              | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte                 | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|----------------------|-----------|-----------|--------------------|--------------|-------------------------|-----------|-----------|--------------------|--------------|
| Abamectin            | 0.399     | 23.3      | 300                | <LOQ         | Flonicamid              | 0.466     | 24.8      | 2000               | <LOQ         |
| Acephate             | 0.141     | 24.8      | 3000               | <LOQ         | Fludioxonil             | 0.360     | 24.8      | 3000               | <LOQ         |
| Acequinocyl          | 2.178     | 24.8      | 2000               | <LOQ         | Hexythiazox             | 0.113     | 24.8      | 2000               | <LOQ         |
| Acetamiprid          | 0.140     | 24.8      | 3000               | <LOQ         | Imazalil                | 0.258     | 24.8      | 100                | <LOQ         |
| Aldicarb             | 0.203     | 24.8      | 100                | <LOQ         | Imidacloprid            | 0.402     | 24.8      | 3000               | <LOQ         |
| Azoxystrobin         | 0.188     | 24.8      | 3000               | <LOQ         | Kresoxim Methyl         | 0.182     | 24.8      | 1000               | <LOQ         |
| Bifenazate           | 0.086     | 24.8      | 3000               | <LOQ         | Malathion               | 0.223     | 24.8      | 2000               | <LOQ         |
| Bifenthrin           | 0.100     | 24.8      | 500                | <LOQ         | Metalaxyl               | 0.270     | 24.8      | 3000               | <LOQ         |
| Boscalid             | 0.595     | 24.8      | 3000               | <LOQ         | Methiocarb              | 0.118     | 24.8      | 100                | <LOQ         |
| Captan               | 1.850     | 323       | 3000               | <LOQ         | Methomyl                | 0.064     | 24.8      | 100                | <LOQ         |
| Carbaryl             | 0.122     | 24.8      | 500                | <LOQ         | methyl-Parathion        | 2.390     | 24.8      | 100                | <LOQ         |
| Carbofuran           | 0.086     | 24.8      | 100                | <LOQ         | Mevinphos               | 0.093     | 24.8      | 100                | <LOQ         |
| Chlorantraniliprole  | 0.084     | 24.8      | 3000               | <LOQ         | Myclobutanil            | 0.573     | 24.8      | 3000               | <LOQ         |
| Chlordane            | 9.671     | 24.8      | 100                | <LOQ         | Naled                   | 0.069     | 24.8      | 500                | <LOQ         |
| Chlorfenapyr         | 1.500     | 24.8      | 100                | <LOQ         | Oxamyl                  | 0.041     | 24.8      | 500                | <LOQ         |
| Chlormequat Chloride | 0.205     | 24.8      | 3000               | <LOQ         | Paclobutrazol           | 0.065     | 24.8      | 100                | <LOQ         |
| Chlorpyrifos         | 0.109     | 24.8      | 100                | <LOQ         | Pentachloronitrobenzene | 7.950     | 24.8      | 200                | <LOQ         |
| Clofentezine         | 0.212     | 24.8      | 500                | <LOQ         | Permethrin              | 0.624     | 24.8      | 1000               | <LOQ         |
| Coumaphos            | 0.206     | 24.8      | 100                | <LOQ         | Phosmet                 | 0.127     | 24.8      | 200                | <LOQ         |
| Cyfluthrin           | 0.980     | 24.8      | 1000               | <LOQ         | Piperonylbutoxide       | 0.149     | 24.8      | 3000               | <LOQ         |
| Cypermethrin         | 0.985     | 24.8      | 1000               | <LOQ         | Prallethrin             | 1.476     | 24.8      | 400                | <LOQ         |
| Daminozide           | 1.655     | 24.8      | 100                | <LOQ         | Propiconazole           | 0.294     | 24.8      | 1000               | <LOQ         |
| Diazinon             | 0.212     | 24.8      | 200                | <LOQ         | Propoxur                | 0.100     | 24.8      | 100                | <LOQ         |
| Dichlorvos           | 1.130     | 24.8      | 100                | <LOQ         | Pyrethrins              | 0.067     | 12.9      | 1000               | <LOQ         |
| Dimethoate           | 0.063     | 24.8      | 100                | <LOQ         | Pyridaben               | 0.140     | 24.8      | 3000               | <LOQ         |
| Dimethomorph         | 2.581     | 24.8      | 3000               | <LOQ         | Spinetoram              | 0.424     | 24.8      | 3000               | <LOQ         |
| Ethoprophos          | 0.151     | 24.8      | 100                | <LOQ         | Spiromesifen            | 0.120     | 24.8      | 3000               | <LOQ         |
| Etofenprox           | 0.172     | 24.8      | 100                | <LOQ         | Spirotetramat           | 0.211     | 24.8      | 30000              | <LOQ         |
| Etoxazole            | 0.866     | 24.8      | 1500               | <LOQ         | Spiroxamine             | 0.533     | 24.8      | 100                | <LOQ         |
| Fenhexamid           | 0.588     | 24.8      | 30000              | <LOQ         | Tebuconazole            | 0.230     | 24.8      | 1000               | <LOQ         |
| Fenoxycarb           | 0.274     | 24.8      | 100                | <LOQ         | Thiacloprid             | 0.170     | 24.8      | 100                | <LOQ         |
| Fenpyroximate        | 0.198     | 24.8      | 2000               | <LOQ         | Thiamethoxam            | 0.179     | 24.8      | 1000               | <LOQ         |
| Fipronil             | 0.317     | 24.8      | 100                | <LOQ         | Trifloxystrobin         | 0.134     | 24.8      | 3000               | <LOQ         |

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**Definitions are found on page 1**

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