



## 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 # 101320253  
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 # AAHD478

## 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; • AAHE488



Product Image

Potency  
TestedTerpenes  
TestedHeavy Metals  
PassedMycotoxins  
PassedPesticides  
PassedResidual Solvents  
PassedPathogenic Microbiology  
PassedMicrobiology (qPCR)  
Passed

## Potency Summary

|                           |                 |                         |                 |
|---------------------------|-----------------|-------------------------|-----------------|
| <b>Delta 9 THC</b>        | <b>0.00163%</b> | <b>Total Active CBD</b> | <b>&lt;LOQ</b>  |
| per Serving               | 5.79 mg         | per Serving             | 0.00 mg         |
| per Package               | 5.79 mg         | per Package             | 0.00 mg         |
| <b>Total CBG</b>          | <b>0.00271%</b> | <b>Total CBN</b>        | <b>&lt;LOQ</b>  |
| per Serving               | 9.60 mg         | per Serving             | 0.00 mg         |
| per Package               | 9.60 mg         | per Package             | 0.00 mg         |
| <b>Total Cannabinoids</b> | <b>0.00434%</b> | <b>Total Active THC</b> | <b>0.00163%</b> |
| per Serving               | 15.4 mg         | per Serving             | 5.79 mg         |
| per Package               | 15.4 mg         | per Package             | 5.79 mg         |



## Terpenes Summary

Analyte Result (mg/g) (%)

Total Terpenes: 0.000%

Detailed Terpenes Analysis is on the following page

Aixia 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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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



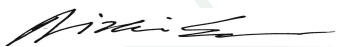
**Potency 25 (LCUV)**

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     | 27.1              | 0.00271 | 9.60                | 9.60                |
| Delta-9 THC           | 8.000             | 1.300000E-5   | 0.0015     | 16.3              | 0.00163 | 5.79                | 5.79                |
| 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             |               |            | 16.0              | 0.00163 | 5.68                | 5.68                |
| 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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## Order #

THD251013-100001  
Order Date: 2025-10-13  
Sample # AAHD478

## 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

Specimen Weight: 451.000 mg

Dilution Factor: 1.000

SOP13.045 (GC-MS/GC (Liquid Injection))  
Tested

| 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: 477.700 mg

Dilution Factor: 1.000

SOP13.017 (qPCR)  
Passed

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



## Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1026.100 mg

Dilution Factor: 1.000

SOP13.019 (Micro Array)  
Passed

| 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  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Test Reg State: Florida

**Food Permits:**

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**Order #**

THD251013-100001  
Order Date: 2025-10-13  
Sample # AAHD478

**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: 254.700 mg

**Passed**

SOP13.048 (ICP-MS)

Dilution Factor: 196

| 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: 580.900 mg

**Passed**

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.580

| 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: 15.900 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               | 58.8         | 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         |                    |           |           |                    |              |

*Aixia Sun*

Aixia Sun Lab Director/Principal Scientist

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## Pesticides Florida

Specimen Weight: 580.900 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.580

| 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

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard. The scope of this analysis is limited to the parameters listed in this COA. Testing for food additives (e.g., preservatives, colorant, flavor enhancers) was not conducted. Therefore, no conclusions should be drawn regarding the presence or absence of such additives. The current and valid permit number for the facility issued by a human health or food safety regulatory entity with authority over the facility is stated above, and that the facility meets the human health or food safety sanitization requirements of the regulatory entity as documented by the regulatory entity and evidenced by the valid permit number.