



## Certificate of Analysis

R&D

### Client Information:

**FOUR WINDS FARM  
LLC**  
2312 ALPINE AVE NW  
HOMESTEAD, IA 52236

### Manufacturing Facility:

FOUR WINDS FARM LLC  
2312 ALPINE AVE NW  
HOMESTEAD, IA 52236  
Production Date: 2024-09-17

### Batch Data:

Batch # 250001303  
Batch Date: 2024-09-17  
Extracted From: cbs hemp  
flower

### Order Details:

Test Reg State: Florida

### Order #

FOU250909-010001  
Order Date: 2025-09-09  
Sample # AAHB629

### Sampling Date:

2025-09-15  
Lab Batch Date: 2025-09-15  
Orig. Completion Date: 2025-09-18

### Initial Gross Weight:

76.600 g  
Density: 1.026 g/ml  
Volume: 30 ml

### Net Weight per Package:

30000.000 mg

### Net Weight per Serving:

1000 mg  
Servings Per Package:  
30

Statement of Amendment: Merging reports; Aahd210



Product Image



Potency  
Tested



Heavy Metals  
Passed



Mycotoxins  
Passed



Pesticides  
Passed



Residual Solvents  
Passed



Water Activity  
Tested



Pathogenic Microbiology  
Passed



Microbiology Petrifilm  
Passed



## Potency Summary

|                           |                |                         |                |
|---------------------------|----------------|-------------------------|----------------|
| <b>Delta 9 THC</b>        | <b>0.0320%</b> | <b>Total Active CBD</b> | <b>0.337%</b>  |
| per Serving               | 0.320 mg       | per Serving             | 3.37 mg        |
| per Package               | 9.60 mg        | per Package             | 101 mg         |
| <b>Total CBG</b>          | <b>5.96%</b>   | <b>Total CBN</b>        | <b>&lt;LOQ</b> |
| per Serving               | 59.6 mg        | per Serving             | 0.00 mg        |
| per Package               | 1790 mg        | per Package             | 0.00 mg        |
| <b>Total Cannabinoids</b> | <b>6.69%</b>   | <b>Total Active THC</b> | <b>0.0320%</b> |
| per Serving               | 66.9 mg        | per Serving             | 0.320 mg       |
| per Package               | 2010 mg        | per Package             | 9.60 mg        |

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 = Delta8-THCP + Delta9-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 Client supplied the net weight of mg The results apply to the sample as received.

Revised report- see statement of amendment above.  
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Sample # AAHB629

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Volume: 30 ml

**Net Weight per Package:**

30000.000 mg

**Net Weight per Serving:**

1000 mg  
Servings Per Package:  
30



**Potency 11 (LCUV)**

Specimen Weight: 100.580 mg

Tested

SOP13.001 (LCUV)

| Analyte          | Dilution<br>(1:n) | LOD<br>(mg/g) | LOQ<br>(%) | Result<br>(mg/ml) | (%)    | Per Serving<br>(mg) | Per Package<br>(mg) |
|------------------|-------------------|---------------|------------|-------------------|--------|---------------------|---------------------|
| CBG              | 10.000            | 2.48E-4       | 0.015      | 61.2              | 5.96   | 61.2                | 1840                |
| CBD              | 10.000            | 5.40E-5       | 0.015      | 3.19              | 0.311  | 3.19                | 95.7                |
| CBDV             | 10.000            | 6.50E-5       | 0.015      | 2.70              | 0.263  | 2.70                | 80.9                |
| CBC              | 10.000            | 1.80E-5       | 0.015      | 0.903             | 0.0880 | 0.903               | 27.1                |
| Delta-9 THC      | 10.000            | 1.30E-5       | 0.015      | 0.328             | 0.0320 | 0.328               | 9.84                |
| CBDA             | 10.000            | 1.00E-5       | 0.015      | 0.308             | 0.0300 | 0.308               | 9.24                |
| CBGA             | 10.000            | 8.00E-5       | 0.015      | <LOQ              | <LOQ   | 0.00                | 0.00                |
| CBN              | 10.000            | 1.40E-5       | 0.015      | <LOQ              | <LOQ   | 0.00                | 0.00                |
| Delta-8 THC      | 10.000            | 2.60E-5       | 0.015      | <LOQ              | <LOQ   | 0.00                | 0.00                |
| THCA-A           | 10.000            | 3.20E-5       | 0.015      | <LOQ              | <LOQ   | 0.00                | 0.00                |
| THCV             | 10.000            | 7.00E-6       | 0.015      | <LOQ              | <LOQ   | 0.00                | 0.00                |
| Total Active THC | 10.000            |               |            | 0.320             | 0.0320 | 0.320               | 9.60                |
| Total Active CBD | 10.000            |               |            | 3.37              | 0.337  | 3.37                | 101                 |

*Aixia Sun*

Aixia Sun Lab Director/Principal Scientist  
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Definitions are found on page 1

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Batch # 250001303  
Batch Date: 2024-09-17  
Extracted From: cbs hemp  
flower

### Order Details:

Test Reg State: Florida

### Order #

FOU250909-010001  
Order Date: 2025-09-09  
Sample # AAHB629

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76.600 g  
Density: 1.026 g/ml  
Volume: 30 ml

### Net Weight per Package:

30000.000 mg

### Net Weight per Serving:

1000 mg  
Servings Per Package:  
30



### Water Activity

Specimen Weight: 0.500 g

Tested

SOP13.016 (Water Activity Analyzer)

Dilution Factor: 1.000

| Analyte        | Action Level (aw) | Result (aw) |
|----------------|-------------------|-------------|
| Water Activity | 0.85              | 0.386       |



### Microbiology (Petrifilm)

Specimen Weight: 1006.600 mg

Passed

SOP13.003 (Petrifilm)

Dilution Factor: 1.000

| Analyte            | LOQ (cfu/g) | Action Level (cfu/g) | Result (cfu/g) | Analyte                  | LOQ (cfu/g) | Action Level (cfu/g) | Result (cfu/g) |
|--------------------|-------------|----------------------|----------------|--------------------------|-------------|----------------------|----------------|
| Aerobic Bacteria   | 10          | 10000                | <10            | Total Enterobacteriaceae | 10          | 1000                 | <10            |
| E. Coli / Coliform | 10          | 100                  | <10            | Yeast/Mold               | 10          | 1000                 | <10            |



### Pathogenic Microbiology SAE (MicroArray)

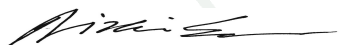
Specimen Weight: 1046.600 mg

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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Batch Date: 2024-09-17  
Extracted From: cbs hemp  
flower

### Order Details:

Test Reg State: Florida

### Order #

FOU250909-010001  
Order Date: 2025-09-09  
Sample # AAHB629

### Sampling Date:

2025-09-15  
Lab Batch Date: 2025-09-15  
Orig. Completion Date: 2025-09-18

### Initial Gross Weight:

76.600 g  
Density: 1.026 g/ml  
Volume: 30 ml

### Net Weight per Package:

30000.000 mg

### Net Weight per Serving:

1000 mg  
Servings Per Package:  
30



### Heavy Metals

Specimen Weight: 246.800 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 202

| 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: 596.100 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.520

| 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)

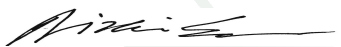
Specimen Weight: 15.200 mg

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      | NA                 | <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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## Net Weight per Serving:

1000 mg  
Servings Per Package:  
30

## Pesticides Florida

Specimen Weight: 596.100 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.520

| Analyte              | LOD<br>(ppb) | LOQ<br>(ppb) | Action Level<br>(ppb) | Result<br>(ppb) | Analyte                 | LOD<br>(ppb) | LOQ<br>(ppb) | Action Level<br>(ppb) | Result<br>(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            |
| Etioazole            | 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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