



License No. 800025015  
FL License # CMTL-0003  
CLIA No. 10D1094068

# Certificate of Analysis

R&D

**HBH**

220 W Brandon Blvd  
Brandon, FL 33511

Batch # SH21  
Batch Date: 2021-11-01  
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211129-010001  
Order Date: 2021-11-29  
Sample # AACF297

Sampling Date: 2021-11-30  
Lab Batch Date: 2021-11-30  
Completion Date: 2021-12-05

Initial Gross Weight: 6.184 g



Product Image

Potency  
Tested



**Potency - 11**

Specimen Weight: 193.080 mg

**Tested**  
(HPLC/LCMS)

| Analyte     | Dilution (1:n) | LOD (%)  | LOQ (%) | Result (mg/g) | Result (%) |
|-------------|----------------|----------|---------|---------------|------------|
| CBDA        | 150.000        | 0.00001  | 0.001   | 74.610        | 7.461      |
| CBD         | 150.000        | 0.000054 | 0.001   | 9.543         | 0.954      |
| THCA-A      | 15.000         | 0.000032 | 0.001   | 1.794         | 0.179      |
| CBGA        | 15.000         | 0.00008  | 0.001   | 1.647         | 0.165      |
| Delta-9 THC | 15.000         | 0.000013 | 0.001   | 0.943         | 0.094      |
| CBC         | 15.000         | 0.000018 | 0.001   | 0.609         | 0.061      |
| CBG         | 15.000         | 0.000248 | 0.001   | 0.373         | 0.037      |
| THCV        | 15.000         | 0.000007 | 0.001   | <LOQ          |            |
| Delta-8 THC | 15.000         | 0.000026 | 0.001   | <LOQ          |            |
| CBN         | 15.000         | 0.000014 | 0.001   | <LOQ          |            |
| CBDV        | 15.000         | 0.000065 | 0.001   | <LOQ          |            |



**Potency Summary**

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <b>Total THC</b><br>0.252%          | <b>Total CBD</b><br>7.498%          |
| <b>Total CBG</b><br>0.182%          | <b>Total CBN</b><br>None Detected   |
| <b>Other Cannabinoids</b><br>0.061% | <b>Total Cannabinoids</b><br>7.992% |

*Xueli Gao*  
Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

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



Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.87), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*Total THCV = THCV + (THCVA \* 0.87), \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Total CBC = CBC + (CBCA \* 0.877), \*Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, \*Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC, \*Total THC-O-Acetate = Delta 8 THC-O-Acetate + THC-O-Acetate, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (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 (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, \*Measurement of Uncertainty = +/- 10%

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Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211210-020001  
Order Date: 2021-12-10  
Sample # AACG361

Sampling Date: 2021-12-10  
Lab Batch Date: 2021-12-10  
Completion Date: 2021-12-14

Initial Gross Weight: 20.272 g



Product Image

Terpenes  
Tested

Heavy Metals  
Passed

Mycotoxins  
Passed

Pesticides  
Passed

Listeria  
Monocytogenes  
Passed

Pathogenic  
Passed

## Potency Panel Not Included

## Terpenes Summary

| Analyte             | Result (mg/g) | (%)    |
|---------------------|---------------|--------|
| beta-Pinene         | 15.65         | 1.565% |
| trans-Caryophyllene | 5.79          | 0.579% |
| alpha-Pinene        | 3.15          | 0.315% |
| alpha-Humulene      | 2.02          | 0.202% |
| Farnesene           | 1.41          | 0.141% |
| (R)-(+)-Limonene    | 0.91          | 0.091% |
| beta-Myrcene        | 0.9           | 0.09%  |

**Total Terpenes: 2.983%**

Detailed Terpenes Analysis is on the following page

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

Aixia Sun  
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Test Reg State: Florida

Order # HBH211210-020001  
Order Date: 2021-12-10  
Sample # AACG361

Sampling Date: 2021-12-10  
Lab Batch Date: 2021-12-10  
Completion Date: 2021-12-14

Initial Gross Weight: 20.272 g



## Terpenes

Specimen Weight: 204.430 mg

Tested  
(GC/GCMS)

Dilution Factor: 30.000

| Analyte          | LOQ (%) | Result (mg/g) | (%)   | Analyte             | LOQ (%) | Result (mg/g) | (%)   |
|------------------|---------|---------------|-------|---------------------|---------|---------------|-------|
| beta-Pinene      | 0.002   | 15.650        | 1.565 | trans-Caryophyllene | 0.002   | 5.790         | 0.579 |
| alpha-Pinene     | 0.002   | 3.150         | 0.315 | alpha-Humulene      | 0.002   | 2.020         | 0.202 |
| Farnesene        | 0.002   | 1.410         | 0.141 | (R)-(+)-Limonene    | 0.002   | 0.910         | 0.091 |
| beta-Myrcene     | 0.002   | 0.900         | 0.090 | Ocimene             | 0.000   | <LOQ          |       |
| Guaiaol          | 0.002   | <LOQ          |       | Hexahydrothymol     | 0.002   | <LOQ          |       |
| Isoborneol       | 0.002   | <LOQ          |       | Isopulegol          | 0.002   | <LOQ          |       |
| Linalool         | 0.002   | <LOQ          |       | Nerol               | 0.002   | <LOQ          |       |
| (+)-Cedrol       | 0.002   | <LOQ          |       | Pulegone            | 0.002   | <LOQ          |       |
| Geraniol         | 0.002   | <LOQ          |       | Sabinene            | 0.002   | <LOQ          |       |
| Sabinene Hydrate | 0.002   | <LOQ          |       | Terpinolene         | 0.002   | <LOQ          |       |
| Total Terpeneol  | 0.001   | <LOQ          |       | trans-Nerolidol     | 0.002   | <LOQ          |       |
| Geranyl acetate  | 0.002   | <LOQ          |       | Fenchone            | 0.002   | <LOQ          |       |
| 3-Carene         | 0.002   | <LOQ          |       | alpha-Bisabolol     | 0.002   | <LOQ          |       |
| alpha-Cedrene    | 0.002   | <LOQ          |       | alpha-Phellandrene  | 0.002   | <LOQ          |       |
| alpha-Terpinene  | 0.002   | <LOQ          |       | Gamma-Terpinene     | 0.002   | <LOQ          |       |
| Borneol          | 0.004   | <LOQ          |       | Camphene            | 0.002   | <LOQ          |       |
| Camphors         | 0.006   | <LOQ          |       | Caryophyllene oxide | 0.002   | <LOQ          |       |
| cis-Nerolidol    | 0.002   | <LOQ          |       | Eucalyptol          | 0.002   | <LOQ          |       |
| Fenchyl Alcohol  | 0.002   | <LOQ          |       | Valencene           | 0.002   | <LOQ          |       |

Total Terpenes: 2.983%

*Xueli Gao*  
Xueli Gao Lab Toxicologist  
Ph.D., DABT

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Test Reg State: Florida

Order # HBH211210-020001  
 Order Date: 2021-12-10  
 Sample # AACG361

Sampling Date: 2021-12-10  
 Lab Batch Date: 2021-12-10  
 Completion Date: 2021-12-14

Initial Gross Weight: 20.272 g



## Heavy Metals

Specimen Weight: 247.300 mg

**Passed**  
(ICP-MS)

Dilution Factor: 2.000

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



## Mycotoxins

Specimen Weight: 194.600 mg

**Passed**  
(LCMS)

Dilution Factor: 7.708

| Analyte      | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Aflatoxin B1 | 6         | 20                 | <LOQ         | Aflatoxin B2 | 6         | 20                 | <LOQ         |
| Aflatoxin G1 | 6         | 20                 | <LOQ         | Aflatoxin G2 | 6         | 20                 | <LOQ         |
| Ochratoxin A | 12        | 20                 | <LOQ         |              |           |                    |              |

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Sample # AACG361

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Lab Batch Date: 2021-12-10  
Completion Date: 2021-12-14

Initial Gross Weight: 20.272 g



## Pesticides FL V4

Specimen Weight: 194.600 mg

**Passed**  
(LCMS/GCMS)

Dilution Factor: 7.708

| Analyte            | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte                 | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------------|-----------|--------------------|--------------|-------------------------|-----------|--------------------|--------------|
| Abarnectin         | 28.23     | 300                | <LOQ         | Acephate                | 30        | 3000               | <LOQ         |
| Acequinocyl        | 48        | 2000               | <LOQ         | Acetamiprid             | 30        | 3000               | <LOQ         |
| Aldicarb           | 30        | 100                | <LOQ         | Azoxystrobin            | 10        | 3000               | <LOQ         |
| Bifenazate         | 30        | 3000               | <LOQ         | Bifenthrin              | 30        | 500                | <LOQ         |
| Boscalid           | 10        | 3000               | <LOQ         | Captan                  | 30        | 3000               | <LOQ         |
| Carbaryl           | 10        | 500                | <LOQ         | Carbofuran              | 10        | 100                | <LOQ         |
| Chlorantranilprole | 10        | 3000               | <LOQ         | Chlordane               | 10        | 100                | <LOQ         |
| Chlorfenapyr       | 30        | 100                | <LOQ         | Chlormequat Chloride    | 10        | 3000               | <LOQ         |
| Chlorpyrifos       | 30        | 100                | <LOQ         | Clofentezine            | 30        | 500                | <LOQ         |
| Coumaphos          | 48        | 100                | <LOQ         | Cyfluthrin              | 30        | 1000               | <LOQ         |
| Cypermethrin       | 30        | 1000               | <LOQ         | Daminozide              | 30        | 100                | <LOQ         |
| Diazinon           | 30        | 200                | <LOQ         | Dichlorvos              | 30        | 100                | <LOQ         |
| Dimethoate         | 30        | 100                | <LOQ         | Dimethomorph            | 48        | 3000               | <LOQ         |
| Ethoprophos        | 30        | 100                | <LOQ         | Etofenprox              | 30        | 100                | <LOQ         |
| Etoxazole          | 30        | 1500               | <LOQ         | Fenhexamid              | 10        | 3000               | <LOQ         |
| Fenoxycarb         | 30        | 100                | <LOQ         | Fenpyroximate           | 30        | 2000               | <LOQ         |
| Fipronil           | 30        | 100                | <LOQ         | Flonicamid              | 30        | 2000               | <LOQ         |
| Fludioxonil        | 48        | 3000               | <LOQ         | Hexythiazox             | 30        | 2000               | <LOQ         |
| Imazail            | 30        | 100                | <LOQ         | Imidacloprid            | 30        | 3000               | <LOQ         |
| Kresoxim Methyl    | 30        | 1000               | <LOQ         | Malathion               | 30        | 2000               | <LOQ         |
| Metaxyl            | 10        | 3000               | <LOQ         | Methiocarb              | 30        | 100                | <LOQ         |
| Methomyl           | 30        | 100                | <LOQ         | methyl-Parathion        | 10        | 100                | <LOQ         |
| Mevinphos          | 10        | 100                | <LOQ         | Myclobutanil            | 30        | 3000               | <LOQ         |
| Naled              | 30        | 500                | <LOQ         | Oxamyl                  | 30        | 500                | <LOQ         |
| Paclotrtrazol      | 30        | 100                | <LOQ         | Pentachloronitrobenzene | 10        | 200                | <LOQ         |
| Permethrin         | 30        | 1000               | <LOQ         | Phosmet                 | 30        | 200                | <LOQ         |
| Piperonylbutoxide  | 30        | 3000               | <LOQ         | Prallethrin             | 30        | 400                | <LOQ         |
| Propiconazole      | 30        | 1000               | <LOQ         | Propoxur                | 30        | 100                | <LOQ         |
| Pyrethrins         | 30        | 1000               | <LOQ         | Pyridaben               | 30        | 3000               | <LOQ         |
| Spinetoram         | 10        | 3000               | <LOQ         | Spinosad                | 30        | 3000               | <LOQ         |
| Spiromesifen       | 30        | 3000               | <LOQ         | Spirotetramat           | 30        | 3000               | <LOQ         |
| Spiroxamine        | 30        | 100                | <LOQ         | Tebuconazole            | 30        | 1000               | <LOQ         |
| Thiacloprid        | 30        | 100                | <LOQ         | Thiamethoxam            | 30        | 1000               | <LOQ         |
| Trifloxystrobin    | 30        | 3000               | <LOQ         |                         |           |                    |              |

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 Sample # AACG361

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 Lab Batch Date: 2021-12-10  
 Completion Date: 2021-12-14

Initial Gross Weight: 20.272 g



## Listeria Monocytogenes

Specimen Weight: 1007.900 mg

**Passed**  
(qPCR)

Dilution Factor: 1.000

| Analyte                | Action Level (cfu/g) | Result        |
|------------------------|----------------------|---------------|
| Listeria Monocytogenes | 1                    | Absence in 1g |



## Pathogenic SAE (qPCR)

Specimen Weight: 254.100 mg

**Passed**  
(qPCR)

Dilution Factor: 1.000

| Analyte   | Action Level (cfu/g) | Result (cfu/g) | Analyte    | Action Level (cfu/g) | Result (cfu/g) |
|---|----------------------|----------------|------------|----------------------|----------------|
| Aspergillus (Flavus, Fumigatus, Niger, Terreus) | 1                    | Absence in 1g  | E.Coli     | 1                    | Absence in 1g  |
|   |                      |                | Salmonella | 1                    | Absence in 1g  |

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 Xueli Gao Lab Toxicologist  
 Ph.D., DABT

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 Aixia Sun Lab Director/Principal Scientist  
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