



## CERTIFICATE OF ANALYSIS

PRODUCED: OCT 03, 2023

SAMPLE: PREROLL\_SOUR MAC 5\_.5G (PRE-ROLL) // CLIENT: MORGAN COUNTY FARMS // BATCH: PASS



**BATCH NO.:** 1A40C010000264A000000950  
**LOT NO.:** 1A40C010000264A000000949  
**MATRIX:** PRE-ROLL  
**CATEGORY:** INHALABLE  
**SAMPLE ID:** GPA-230928-010  
**COLLECTED ON:** SEP 28, 2023  
**RECEIVED ON:** SEP 28, 2023  
**BATCH/SAMPLE SIZE:** 2500 UNITS / 13 UNITS  
**RECEIVED BY:** DAVID JAMESON  
**PACKAGE SIZE:** 2.5 G

### CANNABINOID OVERVIEW

|                            |                   |
|----------------------------|-------------------|
| <b>TOTAL THC:</b>          | <b>23.56 %</b>    |
| <b>TOTAL CBD:</b>          | <b>&lt; LOQ %</b> |
| <b>TOTAL CANNABINOIDS:</b> | <b>28.8082 %</b>  |

### CULTIVATOR INFO

**CULTIVATOR**  
BTMD HOLDINGS LLC

**LICENSE**  
CUL000055  
MEDICINAL - CULTIVATOR LICENSE

### MANUFACTURER INFO

**MANUFACTURER**  
BTMD HOLDINGS LLC  
28580 HIGHWAY 5  
GRAVOIS MILLS, MO 65037

**LICENSE**  
MAN000011  
MEDICINAL - MANUFACTURING LICENSE

### BATCH RESULT: PASS

|                  |        |                   |      |
|------------------|--------|-------------------|------|
| <b>POTENCY</b>   | TESTED | <b>MYCOTOXINS</b> | PASS |
| <b>FOREIGN</b>   | PASS   | <b>PESTICIDES</b> | PASS |
| <b>METALS</b>    | PASS   | <b>SOLVENTS</b>   | PASS |
| <b>MICROBIAL</b> | PASS   | <b>WATER</b>      | PASS |
| <b>MOISTURE</b>  | PASS   |                   |      |

### CANNABINOID PROFILE BY UPLC-UV // SEP 29, 2023

| ANALYTE             | LIMIT    | AMT        | AMT        | LOD/LOQ (mg/g) | PASS/FAIL | ANALYTE                      | LIMIT    | AMT        | AMT        | LOD/LOQ (mg/g) | PASS/FAIL |
|---------------------|----------|------------|------------|----------------|-----------|------------------------------|----------|------------|------------|----------------|-----------|
| CBC                 | < LOQ    | < LOQ      | < LOQ      | 0.2100/0.6300  | N/A       | Δ <sup>9</sup> -THC          | 0.6887 % | 6.887 mg/g | 6.887 mg/g | 0.8800/2.650   | N/A       |
| CBCA                | 0.2440 % | 2.440 mg/g | 2.440 mg/g | 0.04000/0.1100 | N/A       | THCA                         | 26.08 %  | 260.8 mg/g | 260.8 mg/g | 0.05000/0.1400 | N/A       |
| CBD                 | < LOQ    | < LOQ      | < LOQ      | 0.6500/1.980   | N/A       | THCV                         | < LOQ    | < LOQ      | < LOQ      | 0.4100/1.240   | N/A       |
| CBDA                | < LOQ    | < LOQ      | < LOQ      | 0.3500/1.070   | N/A       | THCVA                        | 0.7305 % | 7.305 mg/g | 7.305 mg/g | 0.7400/2.240   | N/A       |
| CBDV                | ND       | ND         | ND         | 0.3500/1.050   | N/A       | <b>TOTAL THC**</b>           | 23.56 %  | 235.6 mg/g | 235.6 mg/g |                | N/A       |
| CBDVA               | ND       | ND         | ND         | 0.2500/0.7600  | N/A       | <b>TOTAL CBD**</b>           | < LOQ    | < LOQ      | < LOQ      |                | N/A       |
| CBG                 | < LOQ    | < LOQ      | < LOQ      | 0.5000/1.520   | N/A       | <b>CBD/PKG</b>               | < LOQ    | < LOQ      | < LOQ      |                | N/A       |
| CBGA                | 1.065 %  | 10.65 mg/g | 10.65 mg/g | 0.4100/1.240   | N/A       | <b>Δ<sup>9</sup>-THC/PKG</b> | 17.22 mg | 17.22 mg   | 17.22 mg   |                | N/A       |
| CBN                 | ND       | ND         | ND         | 0.2600/0.8000  | N/A       | <b>TOTAL THC/PKG**</b>       | 589.0 mg | 589.0 mg   | 589.0 mg   |                | N/A       |
| Δ <sup>8</sup> -THC | ND       | ND         | ND         | 0.9700/2.950   | N/A       | <b>TOTAL CBD/PKG**</b>       | < LOQ    | < LOQ      | < LOQ      |                | N/A       |

\*\* TOTAL CBD = (CBDA X 0.877) + CBD

\*\* TOTAL THC = (THCA X 0.877) + THC

DRY-WEIGHT AMOUNTS SHOWN

### MOISTURE CONTENT BY MOISTURE BALANCE // SEP 29, 2023

| ANALYTE  | LIMIT    | AMT (%) | PASS/FAIL |
|----------|----------|---------|-----------|
| MOISTURE | 5 - 15 % | 9.150   | PASS      |

### WATER ACTIVITY BY HYGROMETER // SEP 29, 2023

| ANALYTE        | LIMIT   | AMT (Aw) | PASS/FAIL |
|----------------|---------|----------|-----------|
| WATER ACTIVITY | 0.65 Aw | 0.4700   | PASS      |



RESULTS CERTIFIED BY: CULLEN MILLER  
 LABORATORY DIRECTOR, GREEN PRECISION ANALYTICS  
 OCT 03, 2023

*Cullen J. Miller*

## HEAVY METAL TESTING BY ICP-MS // SEP 29, 2023

| ANALYTE  | LIMIT    | AMT (µg/g) | LOD/LOQ (µg/g)     | PASS/FAIL |
|----------|----------|------------|--------------------|-----------|
| ARSENIC  | 0.2 µg/g | 0.02410    | 0.0005000/0.001000 | PASS      |
| CADMIUM  | 0.2 µg/g | 0.009956   | 0.0005000/0.001000 | PASS      |
| CHROMIUM | 0.6 µg/g | 0.1159     | 0.0005000/0.001000 | PASS      |

| ANALYTE | LIMIT    | AMT (µg/g) | LOD/LOQ (µg/g)      | PASS/FAIL |
|---------|----------|------------|---------------------|-----------|
| LEAD    | 0.5 µg/g | 0.01465    | 0.0005000/0.001000  | PASS      |
| MERCURY | 0.1 µg/g | 0.002675   | 0.0001000/0.0002000 | PASS      |

## MICROBIAL ANALYSIS BY QPCR // OCT 03, 2023

| ANALYTE          | LIMIT             | AMT (CFU/g) | PASS/FAIL |
|------------------|-------------------|-------------|-----------|
| ASPERGILLUS SPP. | Any amt in 1 gram | ND          | PASS      |
| SALMONELLA SPP.  | Any amt in 1 gram | ND          | PASS      |

| ANALYTE                       | LIMIT             | AMT (CFU/g) | PASS/FAIL |
|-------------------------------|-------------------|-------------|-----------|
| SHIGA TOXIN-PRODUCING E. COLI | Any amt in 1 gram | ND          | PASS      |

## FOREIGN MATTER TESTING BY MICROSCOPY // SEP 29, 2023

| ANALYTE        | LIMIT | AMT (%) | PASS/FAIL |
|----------------|-------|---------|-----------|
| FOREIGN MATTER | 2 %   | ND      | PASS      |

| ANALYTE | LIMIT | AMT (%) | PASS/FAIL |
|---------|-------|---------|-----------|
| STEMS   | 5 %   | ND      | PASS      |

## RESIDUAL SOLVENTS TESTING BY GC-MS/MS // OCT 02, 2023

| ANALYTE            | LIMIT     | AMT (µg/g) | LOD/LOQ (µg/g) | PASS/FAIL |
|--------------------|-----------|------------|----------------|-----------|
| 1,2-DICHLOROETHANE | 2 µg/g    | ND         | 0.1130/0.3410  | PASS      |
| ACETONE            | 750 µg/g  | 14.00      | 1.667/5.053    | PASS      |
| ACETONITRILE       | 60 µg/g   | ND         | 7.143/21.65    | PASS      |
| BENZENE            | 1 µg/g    | ND         | 0.04200/0.1260 | PASS      |
| BUTANE             | 800 µg/g  | ND         | 3.468/10.51    | PASS      |
| CHLOROFORM         | 2 µg/g    | ND         | 0.1820/0.5520  | PASS      |
| ETHANOL            | 1000 µg/g | ND         | 2.964/8.982    | PASS      |
| ETHYL ACETATE      | 400 µg/g  | ND         | 2.218/6.722    | PASS      |
| ETHYLENE OXIDE     | 5 µg/g    | ND         | 0.3170/0.9610  | PASS      |
| ETHYL ETHER        | 500 µg/g  | ND         | 2.416/7.320    | PASS      |

| ANALYTE            | LIMIT     | AMT (µg/g) | LOD/LOQ (µg/g) | PASS/FAIL |
|--------------------|-----------|------------|----------------|-----------|
| HEPTANE            | 500 µg/g  | ND         | 2.304/6.982    | PASS      |
| HEXANE             | 50 µg/g   | ND         | 3.201/9.701    | PASS      |
| ISOPROPYL ALCOHOL  | 500 µg/g  | 26.70      | 3.626/10.99    | PASS      |
| METHANOL           | 250 µg/g  | ND         | 5.557/16.84    | PASS      |
| METHYLENE CHLORIDE | 125 µg/g  | ND         | 0.03400/0.1030 | PASS      |
| PENTANE            | 750 µg/g  | ND         | 2.916/8.836    | PASS      |
| PROPANE            | 2100 µg/g | ND         | 4.097/12.42    | PASS      |
| TOLUENE            | 150 µg/g  | ND         | 3.050/9.241    | PASS      |
| TRICHLOROETHYLENE  | 25 µg/g   | ND         | 0.05400/0.1640 | PASS      |
| TOTAL XYLENES      | 150 µg/g  | ND         |                | PASS      |

## MYCOTOXIN TESTING BY LC-MS/MS // OCT 01, 2023

| ANALYTE      | LIMIT | AMT (µg/kg) | LOD/LOQ (µg/kg) | PASS/FAIL |
|--------------|-------|-------------|-----------------|-----------|
| AFLATOXIN B1 |       | ND          | 1.420/4.300     | N/A       |
| AFLATOXIN B2 |       | ND          | 1.270/3.850     | N/A       |
| AFLATOXIN G1 |       | ND          | 1.730/5.240     | N/A       |

| ANALYTE      | LIMIT    | AMT (µg/kg) | LOD/LOQ (µg/kg) | PASS/FAIL |
|--------------|----------|-------------|-----------------|-----------|
| AFLATOXIN G2 |          | ND          | 1.380/4.180     | N/A       |
| AFLATOXINS   | 20 µg/kg | ND          |                 | PASS      |
| OCHRATOXIN A | 20 µg/kg | ND          | 3.620/10.98     | PASS      |



## PESTICIDE TESTING BY LC-MS/MS // OCT 01, 2023

| ANALYTE             | LIMIT    | AMT (µg/g) | LOD/LOQ (µg/g)   | PASS/FAIL | ANALYTE                 | LIMIT    | AMT (µg/g) | LOD/LOQ (µg/g)   | PASS/FAIL |
|---------------------|----------|------------|------------------|-----------|-------------------------|----------|------------|------------------|-----------|
| ABAMECTIN           | 0.5 µg/g | ND         | 0.03691/0.1119   | PASS      | IMIDACLOPRID            | 0.4 µg/g | ND         | 0.01518/0.04599  | PASS      |
| ACEPHATE            | 0.4 µg/g | ND         | 0.02088/0.06328  | PASS      | KRESOXIM-METHYL         | 0.4 µg/g | ND         | 0.01845/0.05592  | PASS      |
| ACEQUINOCYL         | 2 µg/g   | ND         | 0.03553/0.1077   | PASS      | MALATHION               | 0.2 µg/g | ND         | 0.01412/0.04278  | PASS      |
| ACETAMIPRID         | 0.2 µg/g | ND         | 0.009370/0.02838 | PASS      | METALAXYL               | 0.2 µg/g | ND         | 0.008100/0.02454 | PASS      |
| ALDICARB            | 0.4 µg/g | ND         | 0.03054/0.09256  | PASS      | METHIOCARB              | 0.2 µg/g | ND         | 0.009680/0.02934 | PASS      |
| AZOXYSTROBIN        | 0.2 µg/g | ND         | 0.02597/0.07870  | PASS      | METHOMYL                | 0.4 µg/g | ND         | 0.007170/0.02172 | PASS      |
| BIFENAZATE          | 0.2 µg/g | ND         | 0.01462/0.04430  | PASS      | METHYL PARATHION        | 0.2 µg/g | ND         | 0.04763/0.1443   | PASS      |
| BIFENTHRIN          | 0.2 µg/g | ND         | 0.04703/0.1425   | PASS      | MGK-264                 | 0.2 µg/g | ND         | 0.02057/0.06234  | PASS      |
| BOSCALID            | 0.4 µg/g | ND         | 0.02658/0.08055  | PASS      | MYCLOBUTANIL            | 0.2 µg/g | ND         | 0.01239/0.03755  | PASS      |
| CARBARYL            | 0.2 µg/g | ND         | 0.009920/0.03005 | PASS      | NALED                   | 0.5 µg/g | ND         | 0.01773/0.05372  | PASS      |
| CARBOFURAN          | 0.2 µg/g | ND         | 0.008910/0.02700 | PASS      | OXAMYL                  | 1 µg/g   | ND         | 0.01032/0.03128  | PASS      |
| CHLORANTRANILIPROLE | 0.2 µg/g | ND         | 0.01000/0.02000  | PASS      | PACLOBUTRAZOL           | 0.4 µg/g | ND         | 0.01293/0.03917  | PASS      |
| CHLORFENAPYR        | 1 µg/g   | ND         | 0.06244/0.1892   | PASS      | PERMETHRIN              | 0.2 µg/g | ND         | 0.05361/0.1625   | PASS      |
| CHLORMEQUAT CL      | 0.2 µg/g | ND         | 0.006510/0.01974 | PASS      | PHOSMET                 | 0.2 µg/g | ND         | 0.01072/0.03249  | PASS      |
| CHLORPYRIFOS        | 0.2 µg/g | ND         | 0.01772/0.05371  | PASS      | PIPERONYLBUTOXIDE       | 2 µg/g   | ND         | 0.01549/0.04694  | PASS      |
| CLOFENTEZINE        | 0.2 µg/g | ND         | 0.02230/0.06756  | PASS      | PRALLETHRIN             | 0.2 µg/g | ND         | 0.02359/0.07149  | PASS      |
| CYFLUTHRIN          | 1 µg/g   | ND         | 0.07465/0.2262   | PASS      | PROPICONAZOLE           | 0.4 µg/g | ND         | 0.01497/0.04536  | PASS      |
| CYPERMETHRIN        | 1 µg/g   | ND         | 0.03344/0.1013   | PASS      | PROPOXUR                | 0.2 µg/g | ND         | 0.01071/0.03244  | PASS      |
| DAMINOZIDE          | 1 µg/g   | ND         | 0.01702/0.05158  | PASS      | PYRETHRINS              | 1 µg/g   | ND         |                  | PASS      |
| DIAZINON            | 0.2 µg/g | ND         | 0.02114/0.06407  | PASS      | PYRETHRINS PYRETHRIN I  |          | ND         | 0.01683/0.05100  | N/A       |
| DICHLORVOS          | 1 µg/g   | ND         | 0.02094/0.06345  | PASS      | PYRETHRINS PYRETHRIN II |          | ND         | 0.02930/0.08878  | N/A       |
| DIMETHOATE          | 0.2 µg/g | ND         | 0.01062/0.03219  | PASS      | PYRIDABEN               | 0.2 µg/g | ND         | 0.01780/0.05393  | PASS      |
| ETHOPROPHOS         | 0.2 µg/g | ND         | 0.007760/0.02352 | PASS      | SPINOSAD                | 0.2 µg/g | ND         |                  | PASS      |
| ETOFENPROX          | 0.4 µg/g | ND         | 0.01958/0.05932  | PASS      | SPINOSAD A              |          | ND         | 0.03196/0.09686  | N/A       |
| ETOXAZOLE           | 0.2 µg/g | ND         | 0.009670/0.02931 | PASS      | SPINOSAD D              |          | ND         | 0.03877/0.1175   | N/A       |
| FENOXYCARB          | 0.2 µg/g | ND         | 0.009740/0.02950 | PASS      | SPIROMESIFEN            | 0.2 µg/g | ND         | 0.01725/0.05226  | PASS      |
| FENPYROXIMATE       | 0.4 µg/g | ND         | 0.02431/0.07366  | PASS      | SPIROTETRAMAT           | 0.2 µg/g | ND         | 0.01591/0.04822  | PASS      |
| FIPRONIL            | 0.4 µg/g | ND         | 0.03877/0.1175   | PASS      | SPIROXAMINE             | 0.4 µg/g | ND         | 0.01024/0.03104  | PASS      |
| FLONICAMID          | 1 µg/g   | ND         | 0.02196/0.06655  | PASS      | TUBUCONAZOLE            | 0.4 µg/g | ND         | 0.009000/0.02728 | PASS      |
| FLUDIOXONIL         | 0.4 µg/g | ND         | 0.08335/0.2526   | PASS      | THIACLOPRID             | 0.2 µg/g | ND         | 0.007530/0.02283 | PASS      |
| HEXYTHIAZOX         | 1 µg/g   | ND         | 0.01474/0.04466  | PASS      | THIAMETHOXAM            | 0.4 µg/g | ND         | 0.007600/0.02303 | PASS      |
| IMAZALIL            | 0.2 µg/g | ND         | 0.008850/0.02681 | PASS      | TRIFLOXYSTROBIN         | 0.2 µg/g | ND         | 0.02527/0.07657  | PASS      |

## ACCREDITATIONS



CERT # 6318.01

ISO/IEC  
17025:2017

### A2LA ACCREDITED

#### PESTICIDE TESTING BY LC-MS/MS

ABAMECTIN, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORFENAPYR, CHLORMEQUAT CL, CHLORPYRIFOS, CLOFENTEZINE, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DICHLORVOS, DIAZINON, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MALATHION, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MGK-264, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PRALLETHRIN, PHOSMET, PIPERONYLBUTOXIDE, PROPICONAZOLE, PROPOXUR, PYRIDABEN, PYRETHRINS, PYRETHRINS PYRETHRIN I, PYRETHRINS PYRETHRIN II, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TUBUCONAZOLE, THIACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

#### RESIDUAL SOLVENTS TESTING BY GC-MS/MS

1,1-DICHLOROETHANE, 1,2-DICHLOROETHANE, ACETONE, ACETONITRILE, BENZENE, BUTANE, BUTANES, CHLOROFORM, ETHANOL, ETHYL ACETATE, ETHYL ETHER, ETHYLENE OXIDE, HEPTANE, HEXANE, HEXANES, ISOPROPYL ALCOHOL, METHANOL, METHYLENE CHLORIDE, PENTANE, PENTANES, PROPANE, TOLUENE, TRICHLOROETHYLENE, TOTAL XYLENES

#### CANNABINOID PROFILE BY UPLC-UV

THCA, CBD, CBDA, CBG, CBN, CBC, DELTA-9-THC, DELTA-8-THC, CBDV, CBGA, CBCA, CBDVA, THCV, THCVA, TOTAL THC, TOTAL CBD

#### MICROBIAL ANALYSIS BY QPCR

ASPERGILLUS SPP., ESCHERICHIA COLI, SALMONELLA SPP., SHIGA TOXIN-PRODUCING E. COLI

#### MYCOTOXIN TESTING BY LC-MS/MS

AFLATOXINS, AFLATOXIN B1, AFLATOXIN B2, AFLATOXIN G1, AFLATOXIN G2, OCHRATOXIN A

#### HEAVY METAL TESTING BY ICP-MS

ARSENIC, CADMIUM, LEAD, MERCURY, CHROMIUM

#### FOREIGN MATTER TESTING BY MICROSCOPY

FOREIGN MATTER, STEMS

#### WATER ACTIVITY BY HYGROMETER

WATER ACTIVITY

#### MOISTURE CONTENT BY MOISTURE BALANCE

MOISTURE

