

# MM-Mambas-Sour\_Apple-10\_pack

Overall Batch Result **PASS**



## Total THC

**10.026 mg**  
per serving

**100.257 mg**  
per package

## Total CBD

**0.023 mg**  
per serving

**0.227 mg**  
per package

## Total Cannabinoids

**10.765 mg**  
per serving

**107.649 mg**  
per package

### Batch

Lot / Batch: **MM-Mambas-SA-120622**  
Source UID: **1A406030002A29F000000865**  
Package UID: **1A4060300007083000051570**

### Distributor

Green Spectrum Trading  
14835 Bessemer St  
Van Nuys CA 91411  
CT11-0000760-LIC

### Producer

Green Acre Management (Muha Meds)  
515 W 17th St  
Long Beach CA 90813  
CDPH-10004540

### Sample

Account: **Green Spectrum Trading**  
Sample ID: **1923953**  
Sample Matrix: **Gummy**  
Batch Size: **2000 units**  
Sample Size: **8 units**  
Package Size: **50 g**  
Serving Size: **5 g**  
Collected Date: **12/08/22**  
Received Date: **12/09/22**  
Completed Date: **12/16/22**

**Cannabinoids**

**TESTED**

**Residual Solvents**

**PASS**

**Heavy Metals**

**PASS**

**Microbials**

**PASS**

**Mycotoxins**

**PASS**

**Chemical Residues**

**PASS**

**Foreign Materials**

**PASS**

**Water Activity**

**PASS**

Quality Review

*Dr. Jerry White PhD*

Jerry White, PhD  
Chief Scientific Officer  
12/16/22

Data Review

*Bryan Zahakaylo*

Bryan Zahakaylo  
Analyst  
12/16/22



**Cannabinoids Analysis** TESTED

Analytical Technique: **HPLC UV VIS**  
 Instrumentation: **2030C**  
 Method: **SOP-001**  
 Analysis Performed: **12/12/22**  
 Panel Completed: **12/13/22**

THC per serving: **10.009 mg**  
 THC per package: **100.088 mg**  
 Total THC: **0.2005%, 2.005 mg/g**

CBD per serving: **0.023 mg**  
 CBD per package: **0.227 mg**  
 Total CBD: **0.0005%, 0.005 mg/g**

Sum Cannabinoids: **0.2154%, 2.154 mg/g**  
 Total Cannabinoids: **0.2153%, 2.153 mg/g**

| Analyte   | LOD (mg/g) | LOQ (mg/g) | Results (mg/g) | Results (%)      |
|---|------------|------------|----------------|------------------|
| Cannabidiarin (CBDV)                                      | 0.0000     | 0.0000     | <b>0.004</b>   | <b>0.0004</b>    |
| Cannabidiolic Acid (CBDA)                                 | 0.0000     | 0.0000     | <b>&lt;1</b>   | <b>&lt;0.100</b> |
| Cannabigerolic Acid (CBGA)                                | 0.0000     | 0.0000     | <b>0.002</b>   | <b>0.0002</b>    |
| Cannabigerol (CBG)  | 0.0000     | 0.0000     | <b>0.082</b>   | <b>0.0082</b>    |
| Cannabidiol (CBD)   | 0.0000     | 0.0000     | <b>0.005</b>   | <b>0.0005</b>    |
| Tetrahydrocannabivarin (THCV)                             | 0.0000     | 0.0000     | <b>0.008</b>   | <b>0.0008</b>    |
| Cannabinol (CBN)  | 0.0000     | 0.0000     | <b>0.017</b>   | <b>0.0017</b>    |
| $\Delta$ 9-Tetrahydrocannabinol ( $\Delta$ 9-THC)         | 0.0000     | 0.0000     | <b>2.002</b>   | <b>0.2002</b>    |
| $\Delta$ 8-Tetrahydrocannabinol ( $\Delta$ 8-THC)         | 0.0000     | 0.0000     | <b>0.012</b>   | <b>0.0012</b>    |
| Cannabichromene (CBC)                                     | 0.0000     | 0.0000     | <b>0.019</b>   | <b>0.0019</b>    |
| $\Delta$ 9-Tetrahydrocannabinolic Acid ( $\Delta$ 9-THCA) | 0.0000     | 0.0000     | <b>0.004</b>   | <b>0.0004</b>    |

Sum Cannabinoids = Acidic Cannabinoids + Neutral Cannabinoids

Total Cannabinoids = (Acidic Cannabinoids x 0.877) + Neutral Cannabinoids

 Total THC = (THCA x 0.877) +  $\Delta$ 9-THC

Total CBD = (CBDA x 0.877) + CBD

**Residual Solvents Analysis** PASS

Analytical Technique: **GC-MS**  
 Instrumentation: **2020**  
 Method: **SOP-004**  
 Analysis Performed: **12/13/22**  
 Panel Completed: **12/13/22**

| Analyte             | LOD ( $\mu$ g/g) | LOQ ( $\mu$ g/g) | Action Limit ( $\mu$ g/g) | Results ( $\mu$ g/g) |      |
|---------------------|------------------|------------------|---------------------------|----------------------|------|
| 1,2-Dichloroethane  | 0.1547           | 0.4688           | 1.00                      | ND                   | PASS |
| Acetone             | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Acetonitrile        | 15.4688          | 46.875           | 410.00                    | ND                   | PASS |
| Benzene             | 0.1547           | 0.4688           | 1.00                      | ND                   | PASS |
| Butane              | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Chloroform          | 0.1547           | 0.4688           | 1.00                      | ND                   | PASS |
| Ethanol             | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Ethyl acetate       | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Ethyl ether         | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Ethylene oxide      | 0.1547           | 0.4688           | 1.00                      | ND                   | PASS |
| Heptane             | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Hexane              | 15.4688          | 46.875           | 290.00                    | ND                   | PASS |
| Isopropyl alcohol   | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Methanol            | 15.4688          | 46.875           | 3000.00                   | ND                   | PASS |
| Methylene chloride  | 0.1547           | 0.4688           | 1.00                      | ND                   | PASS |
| Pentane             | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Propane             | 15.4688          | 46.875           | 5000.00                   | ND                   | PASS |
| Toluene             | 15.4688          | 46.875           | 890.00                    | ND                   | PASS |
| Trichloroethylene   | 0.1547           | 0.4688           | 1.00                      | ND                   | PASS |
| Total xylenes       | -                | -                | 2170.00                   | ND                   | PASS |
| (meta, para-xylene) | 46.4063          | 140.625          | -                         | ND                   |      |
| (ortho-xylene)      | 46.4063          | 140.625          | -                         | ND                   |      |

**Heavy Metals Analysis** PASS

Analytical Technique: **ICP-MS**  
 Instrumentation: **NexION**  
 Method: **SOP-005**  
 Analysis Performed: **12/13/22**  
 Panel Completed: **12/13/22**

| Analyte     | LOD ( $\mu$ g/g) | LOQ ( $\mu$ g/g) | Action Limit ( $\mu$ g/g) | Results ( $\mu$ g/g) |      |
|-------------|------------------|------------------|---------------------------|----------------------|------|
| Arsenic 75  | 0.0165           | 0.0500           | 0.200                     | ND                   | PASS |
| Cadmium 111 | 0.0165           | 0.0500           | 0.200                     | ND                   | PASS |
| Lead 208    | 0.0413           | 0.1250           | 0.500                     | ND                   | PASS |
| Mercury 202 | 0.0033           | 0.0100           | 0.100                     | ND                   | PASS |

**Microbials Analysis** PASS

Analytical Technique: **Colorimetric Microarray**  
 Instrumentation: **SensoSpot**  
 Method: **SOP-006**  
 Analysis Performed: **12/12/22**  
 Panel Completed: **12/12/22**

| Analyte                 | Action Limit       | Results |      |
|-------------------------|--------------------|---------|------|
| Aspergillus flavus      | Detected in 1 gram | ND      | PASS |
| Aspergillus fumigatus   | Detected in 1 gram | ND      | PASS |
| Aspergillus niger       | Detected in 1 gram | ND      | PASS |
| Aspergillus terreus     | Detected in 1 gram | ND      | PASS |
| Salmonella spp.         | Detected in 1 gram | ND      | PASS |
| Escherichia coli (STEC) | Detected in 1 gram | ND      | PASS |

**Mycotoxins Analysis** PASS

Analytical Technique: **HPLC-MS/MS**  
 Instrumentation: **5500**  
 Method: **SOP-003**  
 Analysis Performed: **12/09/22**  
 Panel Completed: **12/12/22**

| Analyte          | LOD ( $\mu$ g/kg) | LOQ ( $\mu$ g/kg) | Action Limit ( $\mu$ g/kg) | Results ( $\mu$ g/kg) |      |
|------------------|-------------------|-------------------|----------------------------|-----------------------|------|
| Ochratoxin A     | 6.6000            | 20.0000           | 20                         | ND                    | PASS |
| Total Aflatoxins | -                 | -                 | 20                         | ND                    | PASS |
| (Aflatoxin B1)   | 1.7000            | 5.0000            | -                          | ND                    |      |
| (Aflatoxin B2)   | 1.7000            | 5.0000            | -                          | ND                    |      |
| (Aflatoxin G1)   | 1.7000            | 5.0000            | -                          | ND                    |      |
| (Aflatoxin G2)   | 1.7000            | 5.0000            | -                          | ND                    |      |



**Chemical Residues Analysis**
PASS

Analytical Technique: **HPLC-MS/MS**  
 Instrumentation: **5500**  
 Method: **SOP-003**  
 Analysis Performed: **12/09/22**  
 Panel Completed: **12/12/22**

| Analyte                 | LOD (µg/g) | LOQ(µg/g) | Action Limit (µg/g) | Results (µg/g) |      |
|-------------------------|------------|-----------|---------------------|----------------|------|
| Abamectin               | 0.0333     | 0.1000    | 0.30                | ND             | PASS |
| Acephate                | 0.0333     | 0.1000    | 5.00                | ND             | PASS |
| Acequinocyl             | 0.0333     | 0.1000    | 4.00                | ND             | PASS |
| Acetamiprid             | 0.0333     | 0.1000    | 5.00                | ND             | PASS |
| Aldicarb                | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Azoxystrobin            | 0.0333     | 0.1000    | 40.00               | ND             | PASS |
| Bifenazate              | 0.0333     | 0.1000    | 5.00                | ND             | PASS |
| Bifenthrin              | 0.0333     | 0.1000    | 0.50                | ND             | PASS |
| Boscalid                | 0.0333     | 0.1000    | 10.00               | ND             | PASS |
| Carbaryl                | 0.0333     | 0.1000    | 0.50                | ND             | PASS |
| Carbofuran              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Chlorantraniliprole     | 0.0333     | 0.1000    | 40.00               | ND             | PASS |
| Chlorpyrifos            | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Clofentezine            | 0.0333     | 0.1000    | 0.50                | ND             | PASS |
| Coumaphos               | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Daminozide              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Diazinon                | 0.1000     | 0.1000    | 0.20                | ND             | PASS |
| Dichlorvos              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Dimethoate              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Dimethomorph            | 0.0333     | 0.1000    | 20.00               | ND             | PASS |
| Ethoprophos             | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Etofenprox              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Etoxazole               | 0.0333     | 0.1000    | 1.50                | ND             | PASS |
| Fenhexamid              | 0.0333     | 0.1000    | 10.00               | ND             | PASS |
| Fenoxycarb              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Fenpyroximate           | 0.0333     | 0.1000    | 2.00                | ND             | PASS |
| Fipronil                | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Flonicamid              | 0.0333     | 0.1000    | 2.00                | ND             | PASS |
| Fludioxonil             | 0.0333     | 0.1000    | 30.00               | ND             | PASS |
| Hexythiazox             | 0.0333     | 0.1000    | 2.00                | ND             | PASS |
| Imazalil                | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Imidacloprid            | 0.0333     | 0.1000    | 3.00                | ND             | PASS |
| Kresoxim-Methyl         | 0.0333     | 0.1000    | 1.00                | ND             | PASS |
| Malathion               | 0.0333     | 0.1000    | 5.00                | ND             | PASS |
| Metalaxyl               | 0.0333     | 0.1000    | 15.00               | ND             | PASS |
| Methiocarb              | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Methomyl                | 0.0333     | 0.1000    | 0.10                | ND             | PASS |
| Mevinphos               | 0.0333     | 0.1000    | >LOD                | ND             | PASS |
| Myclobutanil            | 0.0333     | 0.1000    | 9.00                | ND             | PASS |
| Naled                   | 0.0333     | 0.1000    | 0.50                | ND             | PASS |
| Oxamyl                  | 0.0333     | 0.1000    | 0.20                | ND             | PASS |
| Paclobutrazol           | 0.0333     | 0.1000    | 0.00                | ND             | PASS |
| Permethrin              | 0.0333     | 0.1000    | 20.00               | ND             | PASS |
| Phosmet                 | 0.0333     | 0.1000    | 0.20                | ND             | PASS |
| Piperonyl Butoxide      | 0.0333     | 0.1000    | 8.00                | ND             | PASS |
| Prallethrin             | 0.0333     | 0.1000    | 0.40                | ND             | PASS |
| Propiconazole           | 0.0333     | 0.1000    | 20.00               | ND             | PASS |
| Propoxur                | 0.0333     | 0.1000    | 0.00                | ND             | PASS |
| Pyrethrins              | 0.0333     | 0.1000    | 1.00                | ND             | PASS |
| Pyridaben               | 0.0333     | 0.1000    | 3.00                | ND             | PASS |
| Spinetoram              | 0.0333     | 0.1000    | 3.00                | ND             | PASS |
| Spinosad                | 0.0333     | 0.1000    | 3.00                | ND             | PASS |
| Spiromesifen            | 0.0333     | 0.1000    | 12.00               | ND             | PASS |
| Spirotetramat           | 0.0333     | 0.1000    | 13.00               | ND             | PASS |
| Spiroxamine             | 0.0333     | 0.1000    | 0.00                | ND             | PASS |
| Tebuconazole            | 0.0333     | 0.1000    | 2.00                | ND             | PASS |
| Thiacloprid             | 0.0333     | 0.1000    | 0.00                | ND             | PASS |
| Thiamethoxam            | 0.0333     | 0.1000    | 4.50                | ND             | PASS |
| Trifloxystrobin         | 0.0333     | 0.1000    | 30.00               | ND             | PASS |
| Captan                  | 0.2310     | 0.7000    | 5.00                | ND             | PASS |
| Chlordane               | 0.0116     | 0.0350    | >LOD                | ND             | PASS |
| Chlorfenapyr            | 0.0058     | 0.0175    | >LOD                | ND             | PASS |
| Cyfluthrin              | 0.0231     | 0.0700    | 1.00                | ND             | PASS |
| Cypermethrin            | 0.0231     | 0.0700    | 1.00                | ND             | PASS |
| Methyl Parathion        | 0.0058     | 0.0175    | >LOD                | ND             | PASS |
| Pentachloronitrobenzene | 0.0231     | 0.0700    | 0.20                | ND             | PASS |

Analytical Technique: **GC-MS/MS**  
 Instrumentation: **8050**  
 Method: **SOP-003**  
 Analysis Performed: **12/09/22**  
 Panel Completed: **12/12/22**



**Foreign Material Analysis** PASS

Analytical Technique: **Digital Microscopy**  
 Instrumentation: **HM16**  
 Method: **SOP-010**  
 Analysis Performed: **12/09/22**  
 Panel Completed: **12/09/22**

| Analyte  | Action Limit            | Results |             |
|--|-------------------------|---------|-------------|
| <b>Sand, Soil, Cinders, or Dirt</b>                  | > 1/4 total sample area | ND      | <b>PASS</b> |
| <b>Mold</b>  | > 1/4 total sample area | ND      | <b>PASS</b> |
| <b>Insect Fragments, Hairs, or Mammalian Excreta</b> | > 1 count per 3.0 grams | ND      | <b>PASS</b> |
| <b>Imbedded Foreign Material</b>                     | > 1/4 total sample area | ND      | <b>PASS</b> |

**Water Activity Analysis** PASS

Analytical Technique: **Vapor Pressure Ratio**  
 Instrumentation: **HC2**  
 Method: **SOP-007**  
 Analysis Performed: **12/09/22**  
 Panel Completed: **12/09/22**

| Analyte               | Detection Range (a <sub>w</sub> ) | Action Limit (a <sub>w</sub> ) | Results (a <sub>w</sub> ) |             |
|-----------------------|-----------------------------------|--------------------------------|---------------------------|-------------|
| <b>Water Activity</b> | 0.25 - 1.0                        | 0.85                           | 0.4485                    | <b>PASS</b> |

