



Prepared for:

**Recovery Stick****MUSCLE MX LLC**

|   |                         |                             |   |
|---|-------------------------|-----------------------------|---|
| Batch ID or Lot Number:<br><b>RCS100421</b> | Test:<br><b>Potency</b> | Reported:<br><b>12/2/21</b> | Location:<br>498 West 8360 South<br>Sandy, UT 84070 |
|---|-------------------------|-----------------------------|---|

|                 |                        |                      |                      |
|-----------------|------------------------|----------------------|----------------------|
| Matrix:<br>Unit | Test ID:<br>T000170561 | Started:<br>10/22/21 | USDA License:<br>N/A |
|-----------------|------------------------|----------------------|----------------------|

|                |   |                                    |                    |
|----------------|---|------------------------------------|--------------------|
| Status:<br>N/A | Method:<br>TM14 (HPLC-DAD): Potency - Broad<br>Spectrum Analysis, 0.01% THC<br>(Colorado Panel) | Received:<br>10/18/2021 @ 02:18 PM | Sampler ID:<br>N/A |
|----------------|---|------------------------------------|--------------------|

(CoA amended to included photo on page 2 per customer request)

**SAMPLE PHOTO**

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02


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**Recovery Stick**
**MUSCLE MX LLC**

|   |  |                                    |   |
|---|--|------------------------------------|---|
| Batch ID or Lot Number:<br><b>RCS100421</b> | Test:<br><b>Metals</b>                 | Reported:<br><b>11/10/21</b>       | Location:<br>498 West 8360 South<br>Sandy, UT 84070 |
| Matrix:<br>Unit                             | Test ID:<br>T000175002                 | Started:<br>11/9/21                | USDA License:<br>N/A                                |
| Status:<br>N/A                              | Method:<br>TM19 (ICP-MS): Heavy Metals | Received:<br>11/05/2021 @ 02:07 PM | Sampler ID:<br>N/A                                  |

**HEAVY METALS DETERMINATION**

| Compound | Dynamic Range (ppm) | Result (ppm) | Notes |
|----------|---------------------|--------------|-------|
| Arsenic  | 0.040 - 4.01        | ND           |       |
| Cadmium  | 0.040 - 4.04        | ND           |       |
| Mercury  | 0.041 - 4.11        | ND           |       |
| Lead     | 0.040 - 4.04        | ND           |       |


 Sam Smith  
 10-Nov-21  
 10:17 AM

PREPARED BY / DATE


 Ryan Weems  
 10-Nov-21  
 10:20 AM

APPROVED BY / DATE

**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

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|   |   |                                    |   |
|---|---|------------------------------------|---|
| Batch ID or Lot Number:<br><b>RCS100421</b> | Test:<br><b>Residual Solvents</b>           | Reported:<br><b>11/11/21</b>       | Location:<br>498 West 8360 South<br>Sandy, UT 84070 |
| Matrix:<br>N/A                              | Test ID:<br>t000175003                      | Started:<br>11/9/21                | USDA License:<br>N/A                                |
| Status:<br>N/A                              | Methods:<br>TM04 (GC-MS): Residual Solvents | Received:<br>11/05/2021 @ 02:07 PM | Sampler ID:<br>N/A                                  |

**RESIDUAL SOLVENTS DETERMINATION**

| Solvent                                 | Dynamic Range (ppm) | Result (ppm) | Notes |
|---|---------------------|--------------|-------|
| <b>Propane</b>                          | 90 - 1809           | *ND          |       |
| <b>Butanes</b><br>(Isobutane, n-Butane) | 181 - 3627          | *ND          |       |
| <b>Methanol</b>                         | 57 - 1146           | *ND          |       |
| <b>Pentane</b>                          | 101 - 1519          | *ND          |       |
| <b>Ethanol</b>                          | 82 - 1631           | *ND          |       |
| <b>Acetone</b>                          | 92 - 1836           | *ND          |       |
| <b>Isopropyl Alcohol</b>                | 98 - 1955           | *ND          |       |
| <b>Hexane</b>                           | 6 - 111             | *ND          |       |
| <b>Ethyl Acetate</b>                    | 94 - 1883           | *ND          |       |
| <b>Benzene</b>                          | 0.2 - 4             | *ND          |       |
| <b>Heptanes</b>                         | 91 - 1824           | *ND          |       |
| <b>Toluene</b>                          | 18 - 351            | *ND          |       |
| <b>Xylenes</b><br>(m,p,o-Xylenes)       | 129 - 2583          | *ND          |       |


 Sam Smith  
 11-Nov-21  
 5:49 PM


 Ryan Weems  
 11-Nov-21  
 5:52 PM

PREPARED BY / DATE

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**Definitions**

\* ND = None Detected (Defined by Dynamic Range of the method)

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|   |                                   |                                    |   |
|---|-----------------------------------|------------------------------------|---|
| Batch ID or Lot Number:<br><b>RCS100421</b> | Test:<br><b>Pesticides</b>        | Reported:<br><b>11/11/21</b>       | Location:<br>498 West 8360 South<br>Sandy, UT 84070 |
| Matrix:<br>Concentrate                      | Test ID:<br>T000175001            | Started:<br>11/10/21               | USDA License:<br>N/A                                |
| Status:<br>N/A                              | Method:<br>TM17(LC-QQQ LC MS/MS): | Received:<br>11/05/2021 @ 02:07 PM | Sampler ID:<br>N/A                                  |

**PESTICIDE DETERMINATION**

| Compound            | LOQ (ppb) | Result (ppb) | Compound        | LOQ (ppb) | Result (ppb) | Compound        | LOQ (ppb) | Result (ppb) |
|---------------------|-----------|--------------|-----------------|-----------|--------------|-----------------|-----------|--------------|
| Acephate            | 53        | ND           | Fenoxycarb      | 62        | ND           | Paclobutrazol   | 58        | ND           |
| Acetamiprid         | 54        | ND           | Fipronil        | 86        | ND           | Permethrin      | 380       | ND           |
| Avermectin          | 473       | ND           | Flonicamid      | 67        | ND           | Phosmet         | 58        | ND           |
| Azoxystrobin        | 59        | ND           | Fludioxonil     | 412       | ND           | Prophos         | 358       | ND           |
| Bifenazate          | 54        | ND           | Hexythiazox     | 50        | ND           | Propoxur        | 54        | ND           |
| Boscalid            | 70        | ND           | Imazalil        | 357       | ND           | Pyridaben       | 364       | ND           |
| Carbaryl            | 51        | ND           | Imidacloprid    | 58        | ND           | Spinosad A      | 45        | ND           |
| Carbofuran          | 53        | ND           | Kresoxim-methyl | 150       | ND           | Spinosad D      | 65        | ND           |
| Chlorantraniliprole | 70        | ND           | Malathion       | 363       | ND           | Spiromesifen    | 337       | ND           |
| Chlorpyrifos        | 500       | ND           | Metalaxyl       | 56        | ND           | Spirotetramat   | 388       | ND           |
| Clofentezine        | 355       | ND           | Methiocarb      | 55        | ND           | Spiroxamine 1   | 24        | ND           |
| Diazinon            | 359       | ND           | Methomyl        | 52        | ND           | Spiroxamine 2   | 32        | ND           |
| Dichlorvos          | 371       | ND           | MGK 264 1       | 200       | ND           | Tebuconazole    | 357       | ND           |
| Dimethoate          | 56        | ND           | MGK 264 2       | 148       | ND           | Thiacloprid     | 54        | ND           |
| E-Fenpyroximate     | 369       | ND           | Myclobutanil    | 54        | ND           | Thiamethoxam    | 57        | ND           |
| Etofenprox          | 55        | ND           | Naled           | 58        | ND           | Trifloxystrobin | 54        | ND           |
| Etoxazole           | 379       | ND           | Oxamyl          | 1500      | ND           |                 |           |              |

  
 Daniel Weidensaul  
 11/11/2021  
 12:07:00 PM

  
 Sam Smith  
 11/11/2021  
 12:15:00 PM

PREPARED BY / DATE

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**Definitions**

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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**Recovery Stick**

|   |   |                                    |   |
|---|---|------------------------------------|---|
| Batch ID or Lot Number:<br><b>RCS100421</b> | Test:<br><b>Microbial Contaminants</b>  | Reported:<br><b>11/8/21</b>        | Location:<br>498 West 8360 South<br>Sandy, UT 84070 |
| Matrix:<br>Finished Product                 | Test ID:<br>T000173270  | Started:<br>11/4/21                | USDA License:<br>N/A                                |
| Status:<br>N/A                              | Methods:<br>TM25 (qPCR)<br>TM24, TM26, TM27(Culture Plating):<br>Microbial (Colorado Panel) | Received:<br>10/28/2021 @ 11:16 AM | Sampler ID:<br>N/A                                  |

**MICROBIAL CONTAMINANTS DETERMINATION**

| Contaminant                  | Method                 | LOD                   | LLOQ                  | ULOQ                      | Result        | Notes   |
|------------------------------|------------------------|-----------------------|-----------------------|---------------------------|---------------|---|
| <b>Total Aerobic Count*</b>  | TM-26, Culture Plating | 10 <sup>2</sup> CFU/g | 10 <sup>3</sup> CFU/g | 1.5x10 <sup>5</sup> CFU/g | None Detected | Free from visual mold, mildew, and foreign matter |
| <b>Total Coliforms*</b>      | TM-27, Culture Plating | 10 <sup>1</sup> CFU/g | 10 <sup>2</sup> CFU/g | 1.5x10 <sup>4</sup> CFU/g | None Detected |   |
| <b>Total Yeast and Mold*</b> | TM-24, Culture Plating | 10 <sup>1</sup> CFU/g | 10 <sup>2</sup> CFU/g | 1.5x10 <sup>4</sup> CFU/g | None Detected |   |
| <b>E. coli (STEC)</b>        | TM-25, PCR             | 1 CFU/25 g            | NA                    | NA                        | Absent        |   |
| <b>Salmonella</b>            | TM-25, PCR             | 1 CFU/25 g            | NA                    | NA                        | Absent        |   |

  
 Brianne Maillot  
 11/8/2021  
 3:34:00 PM

  
 Brett Hudson  
 11/8/2021  
 5:07:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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