

**Certificate of Analysis for**

MitraMan Botanicals  
PO Box 8305  
Round Rock, TX 78683  
Phone: (737) 256-2285

Received: 10/14/2024 @ 20.5 °C  
Report ID: 2410613

**Sample ID:** 2410613-003 Red Horn

**ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 10/15/24**

|                     |       |       |
|---------------------|-------|-------|
| Aerobic Plate Count | 5,500 | CFU/g |
|---------------------|-------|-------|

**CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 10/15/24**

|                         |       |       |
|-------------------------|-------|-------|
| Total Coliform Bacteria | < 100 | CFU/g |
|-------------------------|-------|-------|

**ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 10/15/24**

|                  |       |       |
|------------------|-------|-------|
| Escherichia coli | < 100 | CFU/g |
|------------------|-------|-------|

**ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 10/16/24**

|              |       |             |              |        |             |
|--------------|-------|-------------|--------------|--------|-------------|
| Arsenic (As) | 0.228 | mg/kg (ppm) | Cadmium (Cd) | 0.0123 | mg/kg (ppm) |
| Lead (Pb)    | 0.623 | mg/kg (ppm) | Mercury (Hg) | 0.0155 | mg/kg (ppm) |

**MIT.2: Kratom Alkaloids via HPLC-DAD Analyzed 10/17/24**

|                      |          |   |                    |         |   |
|----------------------|----------|---|--------------------|---------|---|
| 7-Hydroxymitragynine | < 0.0100 | % | Isorhynchophylline | < 0.100 | % |
| Mitragynine          | 1.66     | % | Mitraphylline      | < 0.100 | % |
| Paynantheine         | 0.337    | % | Speciociliatine    | 0.317   | % |
| Speciogynine         | 0.236    | % | Total Alkaloids    | 2.55    | % |

**Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR) Analyzed 10/15/24**

|                 |          |       |
|-----------------|----------|-------|
| Salmonella spp. | Negative | /25 g |
|-----------------|----------|-------|

**STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 10/15/24**

|                       |       |       |
|-----------------------|-------|-------|
| Staphylococcus aureus | < 100 | CFU/g |
|-----------------------|-------|-------|

**STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 10/15/24**

|                               |          |       |
|-------------------------------|----------|-------|
| Shiga toxin-producing E. coli | Negative | /25 g |
|-------------------------------|----------|-------|

**YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 10/15/24**

|                |       |       |
|----------------|-------|-------|
| Yeast and Mold | 1,800 | CFU/g |
|----------------|-------|-------|

Reported By: \_\_\_\_\_

Jake S Hedges, Chemistry Laboratory Technician, 10/18/2024