

# Certificate of Analysis

**Sample Name:** Part# 10110 - Golden Monk 500g Red Powder  
**Client:** MIT45  
**Sample Code:** DTS-251208-041  
**Matrix Name:** Botanical Powder - Plant  
**Type / Result:** Quality Assurance - Pass



**Received Date:** Tue, Dec 9, 2025  
**Published Date:** Mon, Dec 15, 2025  
**Batch/Lot Code:** 2663R  
**Batch Size:** 1U  
**Sample Size:** 1U  
**Average Unit Weight:** 2.5g (200 servings/package)

| RESULT SUMMARY        |                |
|-----------------------|----------------|
| Mitragynine           | 28.21 mg /serv |
| Total Major Alkaloids | 46.98 mg /serv |

|                                        |                                       |                                           |                                             |                                         |
|----------------------------------------|---------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------|
| ALKU<br>Kratom Alkaloids<br>High Level | ALKL<br>Kratom Alkaloids<br>Low Level | SAL<br>Salmonella spp.<br>qPCR            | ECOLI<br>Total Coliforms & E. coli<br>Plate | TAMC<br>Total Aerobic Bacteria<br>Plate |
| SAUR<br>Staphylococcus aureus<br>Plate | TYMFD<br>Total Yeast & Mold<br>Plate  | FTIRR<br>Identification by FTIR<br>Report |                                             |                                         |

| Approvals                                                                                                                                                                 |                     |                      |                       |                            |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|-----------------------|----------------------------|----------------------|
| RESULTS REVIEWED BY:                                                                                                                                                      |                     |                      | RESULTS CERTIFIED BY: |                            |                      |
|                                                                                                                                                                           | Leslie Varela       | Cambium Analytica    |                       | Douglas Smith              | Cambium Analytica    |
|                                                                                                                                                                           | Laboratory Director | Monday, Dec 15, 2025 |                       | VP - Scientific Operations | Monday, Dec 15, 2025 |
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| Lab Information |                                            |                     |
|-----------------|--------------------------------------------|---------------------|
| Address:        | 1230 Woodmere Ave, Traverse City, MI 49686 | Phone: 231.252.3669 |
| Accreditation:  | ISO/IEC 17025:2017 – #108157               |                     |



| <div>ALKU</div> <div>Kratom Alkaloids - High Level</div> <div>LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD</div> <div>ALKU-DTS-251208-041-01 - FRI, DEC 12, 2025</div> |          |              |             |             |              |          |          |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|-------------|-------------|--------------|----------|----------|--------|
| Analyte                                                                                                                                                                                     | Value    | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD      | LOQ      | Status |
| Mitragynine                                                                                                                                                                                 | 1.1284 % | 11.2838 mg/g | 28.21 mg    | 5641.92 mg  | N/A          | 0.3 ug/g | 0.5 ug/g | N / A  |
| Speciociliatine                                                                                                                                                                             | 0.3599 % | 3.5990 mg/g  | 9.00 mg     | 1799.48 mg  | N/A          | 0.3 ug/g | 0.5 ug/g | N / A  |
| Paynantheine                                                                                                                                                                                | 0.2517 % | 2.5173 mg/g  | 6.29 mg     | 1258.66 mg  | N/A          | 0.3 ug/g | 0.5 ug/g | N / A  |
| Speciogynine                                                                                                                                                                                | 0.1391 % | 1.3908 mg/g  | 3.48 mg     | 695.41 mg   | N/A          | 0.3 ug/g | 0.5 ug/g | N / A  |
| Total Major Alkaloids*                                                                                                                                                                      | 1.8791 % | 18.7909 mg/g | 46.98 mg    | 9395.46 mg  | N/A          | N/A      | N/A      | N / A  |

\*Total Major Alkaloids is calculated as the sum of Mitragynine, Paynantheine, Speciociliatine and Speciogynine.

| <div>ALKL</div> <div>Kratom Alkaloids - Low Level</div> <div>LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ</div> <div>ALKL-DTS-251208-041-01 - FRI, DEC 12, 2025</div> |           |              |             |             |              |            |            |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-------------|-------------|--------------|------------|------------|--------|
| Analyte                                                                                                                                                                                 | Value     | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD        | LOQ        | Status |
| 7-Hydroxymitragynine                                                                                                                                                                    | 0.00202 % | 0.02018 mg/g | 0.05 mg     | 10.09 mg    | N/A          | 0.002 ug/g | 0.011 ug/g | N / A  |
| Mitraphylline                                                                                                                                                                           | 0.00002 % | 0.00016 mg/g | 0.00 mg     | 0.08 mg     | N/A          | 0.004 ug/g | 0.019 ug/g | N / A  |
| Total Minor Alkaloids*                                                                                                                                                                  | 0.00203 % | 0.02033 mg/g | 0.05 mg     | 10.17 mg    | N/A          | N/A        | N/A        | N / A  |

\*Total Minor Alkaloids is calculated as the sum of 7-Hydroxymitragynine and Mitraphylline.

|                                                                                                                                                                                                                                                                                                                    |       |              |     |     |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|-----|-----|--------|
| <div><div>SAL</div><div>Salmonella spp. - qPCR 25g</div><div>LAB-TM-063 - Detection of Presumptive Salmonella spp. in Foods and Dietary Supplements</div><div>SAL-DTS-251208-041-01 - THU, DEC 11, 2025</div></div> <div></div> |       |              |     |     |        |
| Analyte                                                                                                                                                                                                                                                                                                            | Value | Action Limit | LOD | LOQ | Status |
| Salmonella spp.                                                                                                                                                                                                                                                                                                    | ND    | Detection    | N/A | N/A | PASS   |

| <div>ECOLI</div> <div>Total Coliforms &amp; E. coli - Plate - 25g - Full Range</div> <div>LAB-TM-059 - Enumeration of Escherichia coli and Total Coliform in Foods and Dietary Supplements</div> <div>ECOLI-DTS-251208-041-01 - THU, DEC 11, 2025</div> |       |              |          |          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|----------|----------|---------------------------------------------------------------------------------------|
| Analyte                                                                                                                                                                                                                                                 | Value | Action Limit | LOD      | LOQ      | Status                                                                                |
| E. coli                                                                                                                                                                                                                                                 | ND    | Detection    | 10 CFU/g | 10 CFU/g | PASS                                                                                  |
| Total Coliforms                                                                                                                                                                                                                                         | ND    | 1000 CFU/g   | 10 CFU/g | 10 CFU/g | PASS                                                                                  |

| <div>TAMC</div> <div>Total Aerobic Bacteria - Plate - 25g - Full Range</div> <div>LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements</div> <div>TAMC-DTS-251208-041-01 - THU, DEC 11, 2025</div> |            |              |            |            |        |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------|------------|--------|---------------------------------------------------------------------------------------|--|--|
| Analyte                                                                                                                                                                                                                        | Value      | Action Limit | LOD        | LOQ        | Status |                                                                                       |  |  |
| Total Aerobic Count                                                                                                                                                                                                            | 2000 CFU/g | 100000 CFU/g | 1000 CFU/g | 1000 CFU/g | PASS   |                                                                                       |  |  |



SAUR

Staphylococcus aureus - Plate - 25g

LAB-TM-062 - Enumeration of Staphylococcus aureus in Foods and Dietary Supplements

SAUR-DTS-251208-041-01 - THU, DEC 11, 2025



| Analyte   | Value | Action Limit | LOD      | LOQ      | Status |
|-----------|-------|--------------|----------|----------|--------|
| S. aureus | ND    | Detection    | 10 CFU/g | 10 CFU/g | PASS   |

TYMFD

Total Yeast & Mold - Plate - 25g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-DTS-251208-041-01 - SAT, DEC 13, 2025



| Analyte               | Value | Action Limit | LOD      | LOQ      | Status |
|-----------------------|-------|--------------|----------|----------|--------|
| Total Mold            | ND    | N/A          | 10 CFU/g | 10 CFU/g | N/A    |
| Total Yeast           | ND    | N/A          | 10 CFU/g | 10 CFU/g | N/A    |
| Total Yeast and Mold* | ND    | 1000 CFU/g   | 10 CFU/g | 10 CFU/g | PASS   |

\*Total Yeast and Mold is calculated as the sum of Total Yeast and Total Mold

FTIRR

Identification by FTIR - Report

ANA-TM-113 - Identification by FTIR

FTIRR-DTS-251208-041-01 - THU, DEC 11, 2025

| Analyte             | Value  | Action Limit | LOD | LOQ | Status |
|---------------------|--------|--------------|-----|-----|--------|
| Quality Index Score | 99.1 % | 95 - 100 %   | N/A | N/A | PASS   |

Golden Monk Red 500g Powder

