

# CERTIFICATE OF ANALYSIS



**SAMPLE NAME:** PART# 10110 - GOLDEN MONK RED 500G POWDER  
**SAMPLE CODE:** DTS-250530-011  
**CLIENT:** MIT45  
**BATCH RESULT:** PASS

1230 Woodmere Ave  
Traverse City, MI 49686  
231.252.3669  
cambiumanalytica.com



**MATRIX NAME:** Botanical Powder - Plant  
**SAMPLE TYPE:** Quality Assurance  
**RECEIVED DATE:** Mon, Jun 2, 2025  
**PUBLISHED DATE:** Thu, Jun 5, 2025  
**BATCH/LOT CODE:** 2363R  
**BATCH SIZE:** 1U  
**SAMPLE SIZE:** 1U  
**AVERAGE UNIT WEIGHT:** 2.5g (200 servings/package)

|                       |                 |
|-----------------------|-----------------|
| MITRAGYNINE           | 29.98 mg / serv |
| TOTAL MAJOR ALKALOIDS | 50.66 mg / serv |
| TOTAL MINOR ALKALOIDS | 0.11 mg / serv  |

|                                        |                                       |                                           |                                             |                                         |
|----------------------------------------|---------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------|
| ALKU<br>Kratom Alkaloids<br>High Level | ALKL<br>Kratom Alkaloids<br>Low Level | SAL<br>Salmonella<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:

**Leslie Varela**  
Laboratory Director

Cambium Analytica  
Thursday, Jun 5, 2025

### RESULTS CERTIFIED BY:

**Douglas Smith**  
VP - Scientific Operations

Cambium Analytica  
Thursday, Jun 5, 2025

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|                       |                                                                                                                |              |             |             |              |          |          |        |
|-----------------------|----------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------|--------------|----------|----------|--------|
| ALKU                  | KRATOM ALKALOIDS - HIGH LEVEL                                                                                  |              |             |             |              |          |          |        |
|                       | LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD<br>ALKU-DTS-250530-011-02 - TUE, JUN 3, 2025 |              |             |             |              |          |          |        |
| ANALYTE               | VALUE                                                                                                          | VALUE (MG/G) | PER SERVING | PER PACKAGE | ACTION LIMIT | LOD      | LOQ      | STATUS |
| Mitragynine           | 1.1994 %                                                                                                       | 11.9940 mg/g | 29.98 mg    | 5997.00 mg  | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Speciociliatine       | 0.3884 %                                                                                                       | 3.8840 mg/g  | 9.71 mg     | 1942.00 mg  | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Paynantheine          | 0.2879 %                                                                                                       | 2.8790 mg/g  | 7.20 mg     | 1439.50 mg  | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Speciogyneine         | 0.1507 %                                                                                                       | 1.5070 mg/g  | 3.77 mg     | 753.50 mg   | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Total Major Alkaloids | 2.0264 %                                                                                                       | 20.2640 mg/g | 50.66 mg    | 10132.00 mg | N/A          | N/A      | N/A      | N/A    |

|                       |                                                                                                             |              |             |             |              |            |            |        |
|-----------------------|-------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------|--------------|------------|------------|--------|
| ALKL                  | KRATOM ALKALOIDS - LOW LEVEL                                                                                |              |             |             |              |            |            |        |
|                       | LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ<br>ALKL-DTS-250530-011-01 - WED, JUN 4, 2025 |              |             |             |              |            |            |        |
| ANALYTE               | VALUE                                                                                                       | VALUE (MG/G) | PER SERVING | PER PACKAGE | ACTION LIMIT | LOD        | LOQ        | STATUS |
| 7-Hydroxymitragynine  | 0.00454 %                                                                                                   | 0.04541 mg/g | 0.11 mg     | 22.70 mg    | N/A          | 0.002 ug/g | 0.011 ug/g | N/A    |
| Mitraphylline         | 0.00003 %                                                                                                   | 0.00027 mg/g | 0.00 mg     | 0.13 mg     | N/A          | 0.004 ug/g | 0.019 ug/g | N/A    |
| Total Minor Alkaloids | 0.00457 %                                                                                                   | 0.04567 mg/g | 0.11 mg     | 22.84 mg    | N/A          | 0.006 ug/g | 0.03 ug/g  | N/A    |



|                |                                                                                                                                      |              |     |     |                                                                                     |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|-----|-------------------------------------------------------------------------------------|
| SAL            | SALMONELLA - QPCR - 25G                                                                                                              |              |     |     |  |
|                | LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS<br>SAL-DTS-250530-011-01 - WED, JUN 4, 2025 |              |     |     |                                                                                     |
| ANALYTE        | VALUE                                                                                                                                | ACTION LIMIT | LOD | LOQ | STATUS                                                                              |
| Salmonella Spp | ND                                                                                                                                   | Detection    | N/A | N/A | PASS                                                                                |



|                 |                                                                                                                                                |              |          |          |                                                                                       |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------|---------------------------------------------------------------------------------------|
| ECOLI           | TOTAL COLIFORMS & E. COLI - PLATE - 25G - FULL RANGE                                                                                           |              |          |          |  |
|                 | LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS<br>ECOLI-DTS-250530-011-01 - WED, JUN 4, 2025 |              |          |          |                                                                                       |
| 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                                                                                  |



|                     |                                                                                  |              |            |            |        |                                                                                       |
|---------------------|----------------------------------------------------------------------------------|--------------|------------|------------|--------|---------------------------------------------------------------------------------------|
| TAMC                | TOTAL AEROBIC BACTERIA - PLATE - 25G - FULL RANGE                                |              |            |            |        |  |
|                     | LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS |              |            |            |        |                                                                                       |
|                     | TAMC-DTS-250530-011-01 - WED, JUN 4, 2025                                        |              |            |            |        |                                                                                       |
| ANALYTE             | VALUE                                                                            | ACTION LIMIT | LOD        | LOQ        | STATUS |                                                                                       |
| Total Aerobic Count | 4000 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<br>SAUR-DTS-250530-011-01 - WED, JUN 4, 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-250530-011-01 - THU, JUN 5, 2025



| ANALYTE              | VALUE    | ACTION LIMIT | LOD      | LOQ      | STATUS |
|----------------------|----------|--------------|----------|----------|--------|
| Total Mold           | ND       | N/A          | 10 CFU/g | 10 CFU/g | N/A    |
| Total Yeast          | 10 CFU/g | N/A          | 10 CFU/g | 10 CFU/g | N/A    |
| Total Yeast and Mold | 10 CFU/g | 1000 CFU/g   | 10 CFU/g | 10 CFU/g | PASS   |

FTIRR

IDENTIFICATION BY FTIR - REPORT

NULL IDENTIFICATION BY FTIR

FTIRR-DTS-250530-011-01 - WED, JUN 4, 2025

| ANALYTE             | VALUE   | ACTION LIMIT | LOD | LOQ | STATUS |
|---------------------|---------|--------------|-----|-----|--------|
| Quality Index Score | 99.80 % | 95-100 %     | N/A | N/A | PASS   |

Matched Library Item: Golden Monk Red

