

# Certificate of Analysis



**Sample Name:** Part# 10110 - Golden Monk Red 500 g Powder  
**Client:** MIT45  
**Sample Code:** DTS-260122-006  
**Matrix Name:** Botanical Powder - Plant  
**Type / Result:** Quality Assurance - Pass



**Received Date:** Fri, Jan 30, 2026  
**Published Date:** Wed, Feb 4, 2026  
**Batch/Lot Code:** 2704R  
**Batch Size:** 1U  
**Sample Size:** 1U  
**Average Unit Weight:** 2.5g (200 servings/package.)

## RESULT SUMMARY

Mitragynine	29.15 mg /serv
Total Major Alkaloids	49.98 mg /serv

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

## Approvals

### RESULTS REVIEWED BY:

 **Leslie Varela**  
Laboratory Director  
Cambium Analytica  
Wednesday, Feb 4, 2026

### RESULTS CERTIFIED BY:

 **Douglas Smith**  
VP - Scientific Operations  
Cambium Analytica  
Wednesday, Feb 4, 2026

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## Lab Information

**Address:** 1230 Woodmere Ave, Traverse City, MI 49686 **Phone:** 231.252.3669 **Accreditation:** ISO/IEC 17025:2017 – #108157



ALKU

**Kratom Alkaloids - High Level**

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD  
 ALKU-DTS-260122-006-01 - WED, FEB 4, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.1660 %	11.6600 mg/g	29.15 mg	5830.00 mg	N/A	0.0487 mg/g	0.0974 mg/g	N/A
Speciociliatine	0.3990 %	3.9905 mg/g	9.98 mg	1995.23 mg	N/A	0.0487 mg/g	0.0974 mg/g	N/A
Paynantheine	0.2412 %	2.4121 mg/g	6.03 mg	1206.07 mg	N/A	0.0487 mg/g	0.0974 mg/g	N/A
Speciogynine	0.1930 %	1.9304 mg/g	4.83 mg	965.18 mg	N/A	0.0487 mg/g	0.0974 mg/g	N/A
Total Major Alkaloids*	1.9993 %	19.9930 mg/g	49.98 mg	9996.48 mg	N/A	N/A	N/A	N/A

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

ALKL

**Kratom Alkaloids - Low Level**

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ  
 ALKL-DTS-260122-006-01 - WED, FEB 4, 2026



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00244 %	0.02439 mg/g	0.06 mg	12.20 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	<LOQ	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00244 %	0.02439 mg/g	0.06 mg	12.20 mg	N/A	N/A	N/A	N/A

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

SAL

**Salmonella spp. - qPCR - 25g**

LAB-TM-063 - Detection of Presumptive Salmonella spp. in Foods and Dietary Supplements  
 SAL-DTS-260122-006-01 - TUE, FEB 3, 2026



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  
 ECOLI-DTS-260122-006-01 - TUE, FEB 3, 2026



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-260122-006-01 - TUE, FEB 3, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	1000 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-260122-006-01 - TUE, FEB 3, 2026

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-260122-006-01 - WED, FEB 4, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	70 CFU/g	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*	70 CFU/g	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-260122-006-01 - MON, FEB 2, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.8 %	95 - 100 %	N/A	N/A	PASS

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