

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

ALKU ✓ Kratom Alkaloids High Level	ALKL ✓ Kratom Alkaloids Low Level	SAL ✓ Salmonella spp. qPCR	ECOLI ✓ Total Coliforms & E. coli Plate	TAMC ✓ Total Aerobic Bacteria Plate
SAUR ✓ Staphylococcus aureus Plate	TYMFD ✓ Total Yeast & Mold Plate	FTIRR ✓ 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 LevelLAB-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 LevelLAB-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 - 25gLAB-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 RangeLAB-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 RangeLAB-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

Part# 10110 Golden Monk Red 500 g Powder

