Certificate of Analysis

Sample Name: Part # 10120 - Golden Monk Red 1000 g Powder
Client: MIT45
Sample Code: DTS-250922-024
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass

cambium analytica

Received Date: Tue, Sep 23, 2025
Published Date: Wed, Oct 1, 2025
Batch/Lot Code: 2557R
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (400 servings/package.)

RESULT SUMMARY

Mitragynine	28.93 mg /serv
Total Major Alkaloids	48.49 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, Oct 1, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Wednesday, Oct 1, 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

ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-250922-024-01 - FRI, SEP 26, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.1573 %	11.5726 mg/g	28.93 mg	11572.61 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.3920 %	3.9203 mg/g	9.80 mg	3920.27 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2526 %	2.5259 mg/g	6.31 mg	2525.86 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.1377 %	1.3772 mg/g	3.44 mg	1377.20 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids*	1.9396 %	19.3959 mg/g	48.49 mg	19395.94 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-250922-024-03 - WED, OCT 1, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00091 %	0.00907 mg/g	0.02 mg	9.07 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	ND	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00091 %	0.00907 mg/g	0.02 mg	9.07 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-250922-024-01 - FRI, SEP 26, 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
ECOLI-DTS-250922-024-01 - THU, SEP 25, 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-250922-024-01 - THU, SEP 25, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	11000 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-250922-024-01 - THU, SEP 25, 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-250922-024-01 - FRI, SEP 26, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	30 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*	30 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-250922-024-01 - WED, SEP 24, 2025

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

Part # 10110 Golden Monk Red 500g Powder