

Certificate of Analysis

Sample Name: Part # 10120 - Golden Monk Red 1000G Powder
Client: MIT45
Sample Code: DTS-250904-001
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass



Received Date: Fri, Sep 5, 2025
Published Date: Wed, Sep 10, 2025
Batch/Lot Code: 2530R
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (400 servings/package.)

RESULT SUMMARY	
Mitragynine	24.89 mg /serv
Total Major Alkaloids	41.45 mg /serv
Total Minor Alkaloids	0.08 mg /serv
Total Yeast and Mold	ND

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:			RESULTS CERTIFIED BY:		
	Leslie Varela Laboratory Director	Cambium Analytica Wednesday, Sep 10, 2025		Douglas Smith VP - Scientific Operations	Cambium Analytica Wednesday, Sep 10, 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-250904-001-01 - THU, SEP 11, 2025								
Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	0.9958 %	9.9576 mg/g	24.89 mg	9957.60 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciociliatine	0.3317 %	3.3173 mg/g	8.29 mg	3317.26 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Paynantheine	0.2098 %	2.0977 mg/g	5.24 mg	2097.69 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciogynine	0.1207 %	1.2074 mg/g	3.02 mg	1207.41 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Total Major Alkaloids*	1.6580 %	16.5800 mg/g	41.45 mg	16579.96 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-250904-001-01 - THU, SEP 11, 2025								
Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00298 %	0.02982 mg/g	0.07 mg	29.82 mg	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00004 %	0.00042 mg/g	0.00 mg	0.42 mg	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids*	0.00302 %	0.03023 mg/g	0.08 mg	30.23 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 and Isolation of Salmonella spp. in Foods and Dietary Supplements SAL-DTS-250904-001-01 - THU, SEP 11, 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-250904-001-01 - THU, SEP 11, 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-250904-001-01 - THU, SEP 11, 2025								
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-250904-001-01 - THU, SEP 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-250904-001-01 - THU, SEP 11, 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-250904-001-01 - THU, SEP 11, 2025					
Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.7 %	95 - 100 %	N/A	N/A	PASS

Part# 10110 Golden Monk Red 500g Powder

