

Certificate of Analysis

Sample Name: Part # 10110 - Golden Monk Red Powder 500 grams
Client: MIT45
Sample Code: DTS-250923-011
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass



Received Date: Wed, Sep 24, 2025
Published Date: Thu, Oct 2, 2025
Batch/Lot Code: 2556R
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (200 servings/package)

RESULT SUMMARY	
Mitragynine	32.08 mg /serv
Total Major Alkaloids	52.57 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:			RESULTS CERTIFIED BY:		
	Leslie Varela Laboratory Director	Cambium Analytica Thursday, Oct 2, 2025		Douglas Smith VP - Scientific Operations	Cambium Analytica Thursday, Oct 2, 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-250923-011-01 - TUE, SEP 30, 2025								
Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.2834 %	12.8335 mg/g	32.08 mg	6416.75 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciociliatine	0.3947 %	3.9471 mg/g	9.87 mg	1973.57 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Paynantheine	0.2635 %	2.6353 mg/g	6.59 mg	1317.66 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciogynine	0.1614 %	1.6138 mg/g	4.03 mg	806.92 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Total Major Alkaloids*	2.1030 %	21.0298 mg/g	52.57 mg	10514.90 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-250923-011-03 - THU, OCT 2, 2025								
Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00070 %	0.00700 mg/g	0.02 mg	3.50 mg	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00000 %	0.00004 mg/g	0.00 mg	0.02 mg	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids*	0.00070 %	0.00704 mg/g	0.02 mg	3.52 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-250923-011-01 - TUE, SEP 30, 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-250923-011-01 - FRI, SEP 26, 2025					ISO ISO 17025 ACCU 100107
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-250923-011-01 - FRI, SEP 26, 2025						ISO ISO 17025 ACCU 100107		
Analyte	Value	Action Limit	LOD	LOQ	Status			
Total Aerobic Count	2000 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-250923-011-01 - FRI, SEP 26, 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-250923-011-01 - MON, SEP 29, 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-250923-011-01 - THU, SEP 25, 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 500 g Powder

