

Certificate of Analysis

Sample Name: Part# 10210 - Golden Monk Red 1000 g Powder
Client: MIT45
Sample Code: DTS-250729-018
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass



Received Date: Wed, Jul 30, 2025
Published Date: Mon, Aug 4, 2025
Batch/Lot Code: 2480R
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (400 servings/package.)

RESULT SUMMARY	
Mitragynine	27.70 mg /serv
Total Major Alkaloids	46.08 mg /serv
Total Minor Alkaloids	0.09 mg /serv

ALKU Kratom Alkaloids High Level	ALKL Kratom Alkaloids Low Level	SAL Salmonella 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 Monday, Aug 4, 2025		Douglas Smith VP - Scientific Operations	Cambium Analytica Monday, Aug 4, 2025
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ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD

ALKU-DTS-250729-018-01 - FRI, AUG 1, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.1082 %	11.0819 mg/g	27.70 mg	11081.88 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciociliatine	0.3389 %	3.3888 mg/g	8.47 mg	3388.75 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Paynantheine	0.2559 %	2.5588 mg/g	6.40 mg	2558.79 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciogynine	0.1401 %	1.4007 mg/g	3.50 mg	1400.66 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Total Major Alkaloids	1.8430 %	18.4301 mg/g	46.08 mg	18430.08 mg	N/A	N/A	N/A	N / A

ALKL

Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ

ALKL-DTS-250729-018-01 - FRI, AUG 1, 2025



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00339 %	0.03392 mg/g	0.08 mg	33.92 mg	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00005 %	0.00050 mg/g	0.00 mg	0.50 mg	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids	0.00344 %	0.03442 mg/g	0.09 mg	34.42 mg	N/A	0.006 ug/g	0.03 ug/g	N / A

SAL

Salmonella - qPCR - 25g

LAB-TM-063 - Detection and Isolation of Salmonella spp. in Foods and Dietary Supplements

SAL-DTS-250729-018-01 - MON, AUG 4, 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-250729-018-01 - FRI, AUG 1, 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-250729-018-01 - FRI, AUG 1, 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-250729-018-01 - FRI, AUG 1, 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-250729-018-01 - MON, AUG 4, 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

FTIRR Identification by FTIR - Report ANA-TM-113 - Identification by FTIR FTIRR-DTS-250729-018-01 - THU, JUL 31, 2025					
Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.84 %	95 - 100 %	N/A	N/A	PASS

Matched Library Item: Part# 10105 - Golden Monk Red 500 ct Capsules

