

Certificate of Analysis

Sample Name: Part# 10100 - Golden Monk Red 250 g Powder
Client: MIT45
Sample Code: DTS-250721-004
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass



Received Date: Tue, Jul 22, 2025
Published Date: Mon, Jul 28, 2025
Batch/Lot Code: 2465R
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (100 servings/package.)

RESULT SUMMARY	
Mitragynine	28.67 mg /serv
Total Major Alkaloids	47.06 mg /serv
Total Minor Alkaloids	0.08 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, Jul 28, 2025		Douglas Smith VP - Scientific Operations	Cambium Analytica Monday, Jul 28, 2025
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ALKU

Kratom Alkaloids - High Level

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

ALKU-DTS-250721-004-01 - THU, JUL 24, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.1468 %	11.4680 mg/g	28.67 mg	2867.00 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciociliatine	0.3270 %	3.2700 mg/g	8.18 mg	817.50 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Paynantheine	0.2639 %	2.6390 mg/g	6.60 mg	659.75 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciogynine	0.1448 %	1.4480 mg/g	3.62 mg	362.00 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Total Major Alkaloids	1.8825 %	18.8250 mg/g	47.06 mg	4706.25 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-250721-004-01 - FRI, JUL 25, 2025



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00325 %	0.03246 mg/g	0.08 mg	8.11 mg	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00001 %	0.00010 mg/g	0.00 mg	0.03 mg	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids	0.00326 %	0.03256 mg/g	0.08 mg	8.14 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-250721-004-01 - FRI, JUL 25, 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-250721-004-01 - THU, JUL 24, 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-250721-004-01 - THU, JUL 24, 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-250721-004-01 - THU, JUL 24, 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-250721-004-01 - FRI, JUL 25, 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

FTIRR Identification by FTIR - Report ANA-TM-113 - Identification by FTIR FTIRR-DTS-250721-004-01 - THU, JUL 24, 2025					
Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.92 %	95 - 100 %	N/A	N/A	PASS

Matched Library Item: Part# 10100 Golden Monk Red 500g Powder

