

Certificate of Analysis

Sample Name: Part # 10110- Golden Monk Red 500 g Powder
Client: MIT45
Sample Code: DTS-250626-005
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass



Received Date: Mon, Jun 30, 2025
Published Date: Mon, Jul 7, 2025
Batch/Lot Code: 2422R
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (200 servings/package.)

RESULT SUMMARY

Mitragynine	28.29 mg /serv
Total Major Alkaloids	47.70 mg /serv
Total Minor Alkaloids	0.16 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:

Leslie Varela
Laboratory Director

Cambium Analytica
Monday, Jul 7, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific
Operations

Cambium Analytica
Monday, Jul 7, 2025

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ALKU

Kratom Alkaloids - High Level

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

ALKU-DTS-250626-005-02 - TUE, JUL 1, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.1318 %	11.3180 mg/g	28.29 mg	5659.00 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciociliatine	0.3697 %	3.6970 mg/g	9.24 mg	1848.50 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Paynantheine	0.2618 %	2.6180 mg/g	6.54 mg	1309.00 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciogynine	0.1446 %	1.4460 mg/g	3.62 mg	723.00 mg	N/A	0.3 ug/g	0.5 ug/g	N / A
Total Major Alkaloids	1.9079 %	19.0790 mg/g	47.70 mg	9539.50 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-250626-005-01 - WED, JUL 2, 2025



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00570 %	0.05695 mg/g	0.14 mg	28.48 mg	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00003 %	0.00032 mg/g	0.00 mg	0.16 mg	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids	0.00635 %	0.06353 mg/g	0.16 mg	31.77 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-250626-005-01 - MON, JUL 7, 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-250626-005-01 - WED, JUL 2, 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-250626-005-01 - WED, JUL 2, 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-250626-005-01 - WED, JUL 2, 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-250626-005-01 - THU, JUL 3, 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 null Identification by FTIR FTIRR-DTS-250626-005-01 - TUE, JUL 1, 2025					
Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.82 %	95-100 %	N/A	N/A	PASS

Matched Library Item: Golden Monk Red 500 g Powder

