Certificate of Analysis

Sample Name: Part # 10195 - Golden Monk Green 500 g Powder
Client: MIT45
Sample Code: DTS-250805-007
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass

cambium analytica

Received Date:	Wed, Aug 6, 2025
Published Date:	Mon, Aug 11, 2025
Batch/Lot Code:	2486G
Batch Size:	1U
Sample Size:	1U
Average Unit Weight:	2.5g (200 servings/package)

RESULT SUMMARY

Mitragynine	26.18 mg /serv
Total Major Alkaloids	42.76 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, Aug 11, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Monday, Aug 11, 2025

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ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-250805-007-01 - MON, AUG 11, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.0472 %	10.4715 mg/g	26.18 mg	5235.75 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.3059 %	3.0589 mg/g	7.65 mg	1529.46 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2270 %	2.2699 mg/g	5.67 mg	1134.96 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.1303 %	1.3027 mg/g	3.26 mg	651.33 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.7103 %	17.1030 mg/g	42.76 mg	8551.50 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-250805-007-01 - MON, AUG 11, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00633 %	0.06332 mg/g	0.16 mg	31.66 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00003 %	0.00034 mg/g	0.00 mg	0.17 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00637 %	0.06366 mg/g	0.16 mg	31.83 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-250805-007-01 - MON, AUG 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-250805-007-01 - MON, AUG 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-250805-007-01 - MON, AUG 11, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	ND	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-250805-007-01 - MON, AUG 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-250805-007-01 - MON, AUG 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

FTIRR

Identification by FTIR - Report

ANA-TM-113 - Identification by FTIR
FTIRR-DTS-250805-007-01 - FRI, AUG 8, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.28 %	95 - 100 %	N/A	N/A	PASS

Matched Library Item: Kratom Powder Green Part# 00021 Lot: 04-071723