Certificate of Analysis

Sample Name: Part # 10090 - Golden Monk White 1000 g Powder
Client: MIT45
Sample Code: DTS-250826-003
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass

cambium analytica

Received Date: Wed, Aug 27, 2025
Published Date: Tue, Sep 2, 2025
Batch/Lot Code: 2523W
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (400 servings/package.)

RESULT SUMMARY

Mitragynine	26.66 mg /serv
Total Major Alkaloids	44.93 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:

Leslie Varela
Laboratory Director
Cambium Analytica
Tuesday, Sep 2, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Tuesday, Sep 2, 2025

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ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-250826-003-01 - FRI, AUG 29, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.0663 %	10.6627 mg/g	26.66 mg	10662.71 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.3614 %	3.6142 mg/g	9.04 mg	3614.18 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2373 %	2.3730 mg/g	5.93 mg	2373.05 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.1323 %	1.3228 mg/g	3.31 mg	1322.76 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.7973 %	17.9727 mg/g	44.93 mg	17972.70 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-250826-003-01 - TUE, SEP 2, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00340 %	0.03399 mg/g	0.08 mg	33.99 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00003 %	0.00030 mg/g	0.00 mg	0.30 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00343 %	0.03428 mg/g	0.09 mg	34.28 mg	N/A	N/A	N/A	N/A

SAL

Salmonella - qPCR - 25g

LAB-TM-063 - Detection and Isolation of Salmonella spp. in Foods and Dietary Supplements
SAL-DTS-250826-003-01 - TUE, SEP 2, 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-250826-003-01 - FRI, AUG 29, 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-250826-003-01 - FRI, AUG 29, 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-250826-003-01 - FRI, AUG 29, 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-250826-003-01 - TUE, SEP 2, 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-250826-003-01 - THU, AUG 28, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	98.84 %	95 - 100 %	N/A	N/A	PASS

Golden Monk White