Certificate of Analysis

Sample Name: Part # 10090 - Golden Monk White 1000 g Powder
Client: MIT45
Sample Code: DTS-250828-001
Matrix Name: Botanical Powder - Plant
Type / Result: Quality Assurance - Pass

cambium analytica

Received Date: Fri, Aug 29, 2025
Published Date: Thu, Sep 4, 2025
Batch/Lot Code: 2528W
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (400 servings/package)

RESULT SUMMARY

Mitragynine	32.48 mg /serv
Total Major Alkaloids	52.63 mg /serv
Total Minor Alkaloids	0.06 mg /serv

ALKU ✓ Kratom Alkaloids High Level	ALKL ✓ Kratom Alkaloids Low Level	SAL ✓ Salmonella spp. 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
Thursday, Sep 4, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, Sep 4, 2025

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ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-250828-001-01 - WED, SEP 3, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.2990 %	12.9902 mg/g	32.48 mg	12990.20 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.3780 %	3.7799 mg/g	9.45 mg	3779.94 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2693 %	2.6932 mg/g	6.73 mg	2693.21 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.1590 %	1.5902 mg/g	3.98 mg	1590.18 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	2.1054 %	21.0535 mg/g	52.63 mg	21053.53 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-250828-001-01 - THU, SEP 4, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00234 %	0.02337 mg/g	0.06 mg	23.37 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00001 %	0.00008 mg/g	0.00 mg	0.08 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00235 %	0.02345 mg/g	0.06 mg	23.45 mg	N/A	N/A	N/A	N/A

SAL

Salmonella spp. - qPCR - 25g

LAB-TM-063 - Detection and Isolation of Salmonella spp. in Foods and Dietary Supplements
SAL-DTS-250828-001-01 - THU, SEP 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-250828-001-01 - THU, SEP 4, 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-250828-001-01 - THU, SEP 4, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	2000 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-250828-001-01 - THU, SEP 4, 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-250828-001-01 - THU, SEP 4, 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-250828-001-01 - TUE, SEP 2, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	98.9 %	95 - 100 %	N/A	N/A	PASS

Kratom Powder White Part#00031