Certificate of Analysis

Sample Name: Part# 10080 - Golden Monk White 500 g Powder
Client: MIT45
Sample Code: DTS-260706-002
Matrix Name: Raw Botanical - Powder
Type / Result: Quality Assurance - Pass

cambium analytica
an NSF company



Received Date: Wed, Jul 8, 2026
Published Date: Tue, Jul 14, 2026
Batch/Lot Code: 2915W
Batch Size: 1U
Sample Size: 1U
Average Unit Weight: 2.5g (200 servings/package)

RESULT SUMMARY

Mitragynine	34.00 mg /serv
Total Major Alkaloids	56.28 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	HVMET ✓ Heavy Metals Big 4	TYMFD ✓ Total Yeast & Mold Plate	FTIRR ✓ Identification by FTIR Report	

Approvals

RESULTS REVIEWED BY:

Leslie Nagy
Laboratory Director
Cambium Analytica
Tuesday, Jul 14, 2026

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Tuesday, Jul 14, 2026

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Lab Information

Address: 1230 Woodmere Ave, Traverse City, MI 49686 **Phone:** 231.252.3669 **Accreditation:** ISO/IEC 17025:2017 – #108157

ALKU

Kratom Alkaloids - High Level

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

ALKU-DTS-260706-002-02 - FRI, JUL 10, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.3599 %	13.5986 mg/g	34.00 mg	6799.32 mg	N/A	0.0498 mg/g	0.0997 mg/g	N/A
Speciociliatine	0.4172 %	4.1721 mg/g	10.43 mg	2086.05 mg	N/A	0.0498 mg/g	0.0997 mg/g	N/A
Paynantheine	0.2732 %	2.7325 mg/g	6.83 mg	1366.25 mg	N/A	0.0498 mg/g	0.0997 mg/g	N/A
Speciogynine	0.2010 %	2.0099 mg/g	5.02 mg	1004.94 mg	N/A	0.0498 mg/g	0.0997 mg/g	N/A
Total Major Alkaloids *	2.2513 %	22.5131 mg/g	56.28 mg	11256.56 mg	N/A	N/A	N/A	N/A

**Total Major Alkaloids is calculated as the sum of Mitragynine, Paynantheine, Speciociliatine and Speciogynine.*

ALKL

Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ

ALKL-DTS-260706-002-01 - TUE, JUL 14, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00229 %	0.02291 mg/g	0.06 mg	11.45 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00001 %	0.00009 mg/g	0.00 mg	0.04 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids *	0.00230 %	0.02300 mg/g	0.06 mg	11.50 mg	N/A	N/A	N/A	N/A

**Total Minor Alkaloids is calculated as the sum of 7-Hydroxymitragynine and Mitraphylline.*

SAL

Salmonella spp. - qPCR - 25g

LAB-TM-063 - Qualitative Detection of Presumptive Salmonella spp. in Foods and Dietary Supplements

SAL-DTS-260706-002-01 - FRI, JUL 10, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Salmonella spp.	ND /25 g	Detection	N/A	N/A	PASS

USP <62> - Vendor Modified, USP <2022> - Vendor Modified, USP <1223>, AOAC PTM 121802, AOAC OMA 2020.02

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-260706-002-01 - FRI, JUL 10, 2026

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

USP <61> - Vendor Modified, USP <2021> - Vendor Modified, USP <1223>, AOAC PTM 051801, AOAC OMA 2018.13

Testing was conducted on a 25.4 gram aliquot

TAMC

Total Aerobic Bacteria - Plate - 25g - Full Range

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements

TAMC-DTS-260706-002-01 - FRI, JUL 10, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	ND	100000 CFU/g	10 CFU/g	10 CFU/g	PASS

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121403, AOAC OMA 2015.13

Testing was conducted on a 25.4 gram aliquot

SAUR

Staphylococcus aureus - Plate - 25g

LAB-TM-062 - Enumeration of Staphylococcus aureus in Foods and Dietary Supplements

SAUR-DTS-260706-002-01 - FRI, JUL 10, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
S. aureus	ND	Detection	10 CFU/g	10 CFU/g	PASS

USP <61> - Vendor Modified, USP <2021> - Vendor Modified, USP <1223>, AOAC OMA 2003.07

Testing was conducted on a 25.4 gram aliquot

HVMET

Heavy Metals - Big 4

LAB-TM-044 - Determination of Heavy Metals by ICP-MS

HVMET-DTS-260706-002-01 - FRI, JUL 10, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	0.232 ug/g	0.000 mg/g	0.58 ug	115.76 ug	1 ug/g	41.115 ug/kg	114.207 ug/kg	PASS
Cadmium	<LOQ	N/A	N/A	N/A	1 ug/g	8.223 ug/kg	28.552 ug/kg	PASS
Lead	0.364 ug/g	0.000 mg/g	0.91 ug	182.00 ug	3 ug/g	5.025 ug/kg	28.552 ug/kg	PASS
Mercury	0.021 ug/g	0.000 mg/g	0.05 ug	10.48 ug	1 ug/g	1.599 ug/kg	2.855 ug/kg	PASS

USP <233>, USP <730>, USP <1730>

TYMFD

Total Yeast & Mold - Plate - 25g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-DTS-260706-002-01 - MON, JUL 13, 2026

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 *	0 CFU/g	1000 CFU/g	N/A	N/A	PASS

**Total Yeast and Mold is calculated as the sum of Total Yeast and Total Mold*

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121301, AOAC OMA 2014.05

Testing was conducted on a 25.4 gram aliquot

FTIRR

Identification by FTIR - Report

ANA-TM-113 - Identification by FTIR

FTIRR-DTS-260706-002-01 - FRI, JUL 10, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	98.4 %	95 - 100 %	N/A	N/A	PASS

USP <197>, USP <854>, USP <1854>

Golden Monk White Powder