

CERTIFICATE OF ANALYSIS



SAMPLE NAME: PART # X30005 - MIT45 MIT45 (15 ML) 12 PACK
SAMPLE CODE: DTS-250311-003
CLIENT: MIT45
BATCH RESULT: PASS

1230 Woodmere Ave
Traverse City, MI 49686
231.252.3669
cambiumanalytica.com



MATRIX NAME: Tincture - Oil Based
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Wed, Mar 12, 2025
PUBLISHED DATE: Mon, Mar 17, 2025
BATCH/LOT CODE: 00-2226-S
BATCH SIZE: 135mL
SAMPLE SIZE: 135mL
AVERAGE UNIT WEIGHT: 17.8725g (Density (1.1915 g/mL) x 15mL package. 5 servings/package.)

MITRAGYNE	26.47 mg / serv
TOTAL MAJOR ALKALOIDS	36.97 mg / serv
TOTAL MINOR ALKALOIDS	0.01 mg / serv

ALKU ✓
Kratom Alkaloids
High Level

ALKL ✓
Kratom Alkaloids
Low Level

SAL ✓
Salmonella
25g qPCR

ECOLI ✓
Total E. Coli & Coliforms
Plate

TAMC ✓
Total Aerobic Bacteria
Plate

DEN ✓
Density of Liquids

SAUR ✓
Staphylococcus aureus
Plate

AWA ✓
Water Activity

TYMFD ✓
Total Yeast & Mold
Plate

FTIRR ✓
Identification by FTIR
Report

APPROVALS

RESULTS REVIEWED BY:

Leslie Varela
Laboratory Director

Cambium Analytica
Monday, Mar 17, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations

Cambium Analytica
Monday, Mar 17, 2025

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ALKU **KRATOM ALKALOIDS - HIGH LEVEL**
 LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
 ALKU-DTS-250311-003-01 - MON, MAR 17, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.7406 %	7.406 mg/g	26.47 mg	132.36 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.1439 %	1.439 mg/g	5.14 mg	25.72 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.0763 %	0.763 mg/g	2.73 mg	13.64 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyne	0.0736 %	0.736 mg/g	2.63 mg	13.15 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.0344 %	10.344 mg/g	36.97 mg	184.87 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-250311-003-01 - MON, MAR 17, 2025



ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00017 %	0.002 mg/g	0.01 mg	0.03 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00002 %	0.000 mg/g	0.00 mg	0.00 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00019 %	0.002 mg/g	0.01 mg	0.03 mg	N/A	0.006 ug/g	0.03 ug/g	N/A

SAL **SALMONELLA - 25G QPCR**
 LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS
 SAL-DTS-250311-003-01 - FRI, MAR 14, 2025



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	Detection	N/A	N/A	PASS

ECOLI **TOTAL E. COLI & COLIFORMS - PLATE**
 LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
 ECOLI-DTS-250311-003-01 - FRI, MAR 14, 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**
 LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
 TAMC-DTS-250311-003-01 - FRI, MAR 14, 2025



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	10000 CFU/g	100 CFU/g	100 CFU/g	PASS

DEN **DENSITY OF LIQUIDS**
 LAB-TM-017 - BRUX & DENSITY ANALYSIS
 DEN-DTS-250311-003-01 - FRI, MAR 14, 2025



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.1915 g/mL	N/A	N/A	N/A	N/A



SAUR

STAPHYLOCOCCUS AUREUS - PLATELAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS
SAUR-DTS-250311-003-01 - FRI, MAR 14, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	Detection	10 CFU/g	10 CFU/g	PASS

AWA

WATER ACTIVITYLAB-TM-009 - DETERMINATION OF WATER ACTIVITY
AWA-DTS-250311-003-01 - FRI, MAR 14, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.599 aw	N/A	N/A	N/A	N/A

TYMFD

TOTAL YEAST & MOLD - PLATELAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-250311-003-01 - MON, MAR 17, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	100 CFU/g	10 CFU/g	10 CFU/g	PASS

FTIRR

IDENTIFICATION BY FTIR - REPORTNULL IDENTIFICATION BY FTIR
FTIRR-DTS-250311-003-01 - FRI, MAR 14, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Quality Index Score	99.90 %	95-100 %	N/A	N/A	PASS

Matched Library Item: MIT45 Liquid Gold