

CERTIFICATE OF ANALYSIS



SAMPLE NAME: PART # X30005 - MIT45 MIT45 (15 ML) 12 PACK
SAMPLE CODE: DTS-250422-003
CLIENT: MIT45
BATCH RESULT: PASS

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Traverse City, MI 49686
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MATRIX NAME: Tincture - Oil Based
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Wed, Apr 23, 2025
PUBLISHED DATE: Mon, Apr 28, 2025
BATCH/LOT CODE: 00-2236-S
BATCH SIZE: 135mL
SAMPLE SIZE: 135mL
AVERAGE UNIT WEIGHT: 17.8455g (Density (g/mL) x 15mL package. 5 servings/package)

MITRAGYNINE 24.01 mg / serv

TOTAL MAJOR ALKALOIDS 33.95 mg / serv

TOTAL MINOR ALKALOIDS 0.01 mg / serv

TOTAL YEAST AND MOLD ND

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, Apr 28, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations

Cambium Analytica
Monday, Apr 28, 2025

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ALKU	KRATOM ALKALOIDS - HIGH LEVEL							
	LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD ALKU-DTS-250422-003-01 - MON, APR 28, 2025							
ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.6728 %	6.728 mg/g	24.01 mg	120.06 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.1309 %	1.309 mg/g	4.67 mg	23.36 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.0805 %	0.805 mg/g	2.87 mg	14.37 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyneine	0.0669 %	0.669 mg/g	2.39 mg	11.94 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	0.9511 %	9.511 mg/g	33.95 mg	169.73 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-250422-003-01 - MON, APR 28, 2025							
ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00035 %	0.003 mg/g	0.01 mg	0.06 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00004 %	0.000 mg/g	0.00 mg	0.01 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00039 %	0.004 mg/g	0.01 mg	0.07 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-250422-003-01 - FRI, APR 25, 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-250422-003-01 - FRI, APR 25, 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-250422-003-01 - FRI, APR 25, 2025				
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	10000 CFU/g	10 CFU/g	10 CFU/g	PASS



DEN	DENSITY OF LIQUIDS					
	LAB-TM-017 - BRIX & DENSITY ANALYSIS DEN-DTS-250422-003-01 - FRI, APR 25, 2025					
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS	
Density	1.1897 g/mL	N/A	N/A	N/A	N/A	



SAUR

STAPHYLOCOCCUS AUREUS - PLATE

LAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS

SAUR-DTS-250422-003-01 - FRI, APR 25, 2025

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

AWA

WATER ACTIVITY

LAB-TM-009 - DETERMINATION OF WATER ACTIVITY

AWA-DTS-250422-003-01 - FRI, APR 25, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.612 aw	N/A	N/A	N/A	N/A

TYMFD

TOTAL YEAST & MOLD - PLATE

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS

TYMFD-DTS-250422-003-01 - MON, APR 28, 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	100 CFU/g	10 CFU/g	10 CFU/g	PASS

FTIRR

IDENTIFICATION BY FTIR - REPORT

NULL IDENTIFICATION BY FTIR

FTIRR-DTS-250422-003-01 - THU, APR 24, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Quality Index Score	99.95 %	95-100 %	N/A	N/A	PASS

Matched Library Item: MIT45 Liquid Gold

