

CERTIFICATE OF ANALYSIS



SAMPLE NAME: PART # X30036 - MIT45 SUPER K EXTRA STRONG (30 ML) 12 PACK
SAMPLE CODE: DTS-250328-007
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: Mon, Mar 31, 2025
PUBLISHED DATE: Thu, Apr 3, 2025
BATCH/LOT CODE: 00-2263-S
BATCH SIZE: 270mL
SAMPLE SIZE: 270mL
AVERAGE UNIT WEIGHT: 34.542g (Density (1.1514 g/mL) x 30mL package. 15 servings/package.)

MITRAGYNINE 25.97 mg / serv

TOTAL MAJOR ALKALOIDS 37.34 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
Thursday, Apr 3, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations

Cambium Analytica
Thursday, Apr 3, 2025

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ALKU KRATOM ALKALOIDS - HIGH LEVEL LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD ALKU-DTS-250328-007-01 - THU, APR 3, 2025								
ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.1276 %	11.276 mg/g	25.97 mg	389.50 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2396 %	2.396 mg/g	5.52 mg	82.76 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.1296 %	1.296 mg/g	2.98 mg	44.77 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyneine	0.1246 %	1.246 mg/g	2.87 mg	43.04 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.6214 %	16.214 mg/g	37.34 mg	560.06 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-250328-007-01 - THU, APR 3, 2025								
ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00020 %	0.002 mg/g	0.00 mg	0.07 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00003 %	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	0.00023 %	0.002 mg/g	0.01 mg	0.08 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-250328-007-01 - WED, APR 2, 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-250328-007-01 - WED, APR 2, 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-250328-007-01 - WED, APR 2, 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 - BRUX & DENSITY ANALYSIS DEN-DTS-250328-007-01 - TUE, APR 1, 2025								
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ				STATUS
Density	1.1514 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-250328-007-01 - WED, APR 2, 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-250328-007-01 - WED, APR 2, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.760 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-250328-007-01 - THU, APR 3, 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 - REPORT

NULL IDENTIFICATION BY FTIR

FTIRR-DTS-250328-007-01 - WED, APR 2, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Quality Index Score	99.87 %	95-100 %	N/A	N/A	PASS

Matched Library Item: MIT45 Super K Extra Strong

