

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** ULTRA MIT 15 ML

**SAMPLE CODE:** DTS-240312-059

**CLIENT:** MIT45

**BATCH RESULT:** PASS

**MATRIX NAME:** Tincture - Oil Based

**SAMPLE TYPE:** Quality Assurance

**RECEIVED DATE:** Thu, Mar 14, 2024

**PUBLISHED DATE:** Tue, Mar 19, 2024

**BATCH CODE:** 00-0524

**BATCH SIZE:** 0

**SAMPLE SIZE:** 1U

TOTAL MAJOR ALKALOIDS 0.756%

TOTAL MINOR ALKALOIDS ND

MITRAGYNE 0.684%



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	HVMET ✓ Heavy Metals 4

**RESULTS REVIEWED BY:** Leslie Varela  
Laboratory Director  
Cambium Analytica  
Tuesday, Mar 19, 2024

**RESULTS CERTIFIED BY:** Douglas Smith  
VP - Scientific Operations  
Cambium Analytica  
Tuesday, Mar 19, 2024

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**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD**  
 ALKU-DTS-240312-059-02 - TUE, MAR 19, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Major Alkaloids	0.756 %	N/A			N/A
Mitragynine	0.684 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.036 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.020 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.016 %	N/A	0.3 ug/g	0.5 ug/g	N/A

**LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ**  
 ALKL-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Mitraphylline	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Total Minor Alkaloids	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A

**LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS**  
 SAL-DTS-240312-059-01 - TUE, MAR 12, 2024



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

**LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS**  
 ECOLI-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Coliforms	ND	N/A	10 CFU/g	10 CFU/g	N/A

**LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS**  
 TAMC-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	100 CFU/g	100 CFU/g	N/A

**LAB-TM-017 - BRIX & DENSITY ANALYSIS**  
 DEN-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.193 g/mL	N/A	N/A	N/A	N/A

**LAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS**  
 SAUR-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	N/A	10 CFU/g	10 CFU/g	N/A

**LAB-TM-009 - DETERMINATION OF WATER ACTIVITY**  
 AWA-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.582 aw	N/A			N/A



**LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS**  
 TYMFD-DTS-240312-059-01 - TUE, MAR 12, 2024

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

**LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS**  
 HYMET-DTS-240312-059-01 - TUE, MAR 12, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.004 ug/g	N/A	0.2817 ug/kg	0.2817 ug/kg	N/A
Cadmium	<LOQ	N/A	0.6272 ug/kg	2.0907 ug/kg	N/A
Lead	0.005 ug/g	N/A	0.1546 ug/kg	0.5152 ug/kg	N/A
Mercury	ND	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A

