

CERTIFICATE OF ANALYSIS

SAMPLE NAME: PART # 01781 - KRATOM EXTRACT 45% (PINK)

SAMPLE CODE: DTS-241204-044

CLIENT: MIT45

BATCH RESULT: PASS



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MATRIX NAME: Extract - Other
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Fri, Dec 6, 2024
PUBLISHED DATE: Wed, Dec 11, 2024
BATCH/LOT CODE: 24-10/186/X/45/B
BATCH SIZE: N/A
SAMPLE SIZE: 60g

MITRAGYNINE	57.271 %
TOTAL MAJOR ALKALOIDS	81.341 %
TOTAL MINOR ALKALOIDS	0.07628 %



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
SAUR Staphylococcus aureus Plate	HVMET Heavy Metals 4	TYMFD Total Yeast & Mold Plate	FTIRR Identification by FTIR Report	

APPROVALS

RESULTS REVIEWED BY:

Leslie Varela
Laboratory Director

Cambium Analytica
Wednesday, Dec 11, 2024

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations

Cambium Analytica
Wednesday, Dec 11, 2024

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ALKU	KRATOM ALKALOIDS - HIGH LEVEL					
	LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD ALKU-DTS-241204-044-04 - WED, DEC 11, 2024					
ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	57.271 %	572.707 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	11.519 %	115.191 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	6.505 %	65.053 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyneine	6.046 %	60.462 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	81.341 %	813.413 mg/g	N/A			N/A

ALKL	KRATOM ALKALOIDS - LOW LEVEL					
	LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ ALKL-DTS-241204-044-01 - WED, DEC 11, 2024					
ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.07628 %	0.76282 mg/g	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	ND	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.07628 %	0.76282 mg/g	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-241204-044-01 - TUE, DEC 10, 2024					
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-241204-044-01 - TUE, DEC 10, 2024					
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-241204-044-01 - TUE, DEC 10, 2024					
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS	
Total Aerobic Count	ND	10000 CFU/g	100 CFU/g	100 CFU/g	PASS	



SAUR	STAPHYLOCOCCUS AUREUS - PLATE				
	LAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS SAUR-DTS-241204-044-01 - TUE, DEC 10, 2024				
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	Detection	10 CFU/g	10 CFU/g	PASS



HVMET

HEAVY METALS - 4

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS

HVMET-DTS-241204-044-01 - TUE, DEC 10, 2024



ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	1.0 ug/g	0.198 ug/kg	0.662 ug/kg	PASS
Cadmium	ND	N/A	1.0 ug/g	0.082 ug/kg	0.272 ug/kg	PASS
Lead	0.114 ug/g	N/A	3.0 ug/g	0.155 ug/kg	0.515 ug/kg	PASS
Mercury	0.002 ug/g	N/A	1.0 ug/g	0.017 ug/kg	0.057 ug/kg	PASS

TYMFD

TOTAL YEAST & MOLD - PLATE

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

TYMFD-DTS-241204-044-01 - WED, DEC 11, 2024

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

FTIRR

IDENTIFICATION BY FTIR - REPORT

NULL IDENTIFICATION BY FTIR

FTIRR-DTS-241204-044-01 - MON, DEC 9, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Quality Index Score	95.712 %	95-100 %			PASS

