

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** WHITE POWDER

**SAMPLE CODE:** KTM-230515-021

**CLIENT:** TOP TREE HERBS

**BATCH RESULT:** PASS



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**MATRIX NAME:**

Kratom - Leaf Powder

**SAMPLE TYPE:**

Quality Assurance

**RECEIVED DATE:**

Tue, May 23, 2023

**PUBLISHED DATE:**

Wed, May 31, 2023

**BATCH CODE:**

KPW2

**BATCH SIZE:**

2oz

**SAMPLE SIZE:**

2oz



**LAB-TM-052**

Kratom Alkaloids - High Level



**LAB-TM-047**

Kratom Alkaloids - Low Level



**LAB-TM-005**

Heavy Metals



**LAB-TM-060**

Total Aerobic Bacteria - Plate



**LAB-TM-006**

Salmonella & Shiga Toxin Producing E.Coli (STEC) - qPCR

**RESULTS REVIEWED BY:** Leslie Varela

Laboratory Director  
Cambium Analytica  
Wed, May 31, 2023

**RESULTS REVIEWED BY:** Douglas Smith

VP - Scientific Operations  
Cambium Analytica  
Wed, May 31, 2023

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**LAB-TM-052 - DETERMINATION OF KRATOM A...**

ALKU-KTM-230515-021-01 - MON, MAY 15, 2023

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Major Alkaloids	1.916 %	N/A	N/A	N/A	N/A
Mitragynine	1.147 %	N/A	N/A	0.5 ug/g	N/A
Speciociliatine	0.335 %	N/A	N/A	0.5 ug/g	N/A
Paynantheine	0.256 %	N/A	N/A	0.5 ug/g	N/A
Speciogynine	0.178 %	N/A	N/A	0.5 ug/g	N/A

**LAB-TM-047 - DETERMINATION OF KRATOM A...**

ALKL-KTM-230515-021-01 - MON, MAY 15, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Minor Alkaloids	0.013 %	N/A	N/A	N/A	N/A
7-Hydroxymitragynine	0.012 %	N/A	N/A	N/A	N/A
Mitraphylline	0.000 %	N/A	N/A	N/A	N/A

**LAB-TM-005 - DETERMINATION OF HEAVY MET...**

MET-KTM-230515-021-01 - MON, MAY 15, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.059 ug/g	N/A	0.1985 ug/kg	0.6616 ug/kg	N/A
Cadmium	0.017 ug/g	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A
Chromium	2.594 ug/g	N/A	0.6272 ug/kg	2.0907 ug/kg	N/A
Copper	19.886 ug/g	N/A	0.1546 ug/kg	0.5152 ug/kg	N/A
Lead	0.412 ug/g	N/A	0.0845 ug/kg	0.2817 ug/kg	N/A
Mercury	0.028 ug/g	N/A	0.0171 ug/kg	0.0571 ug/kg	N/A
Nickel	2.893 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A

**LAB-TM-060 - ENUMERATION OF TOTAL AERO...**

TAMC-KTM-230515-021-01 - MON, MAY 15, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	0 CFU/g	N/A	N/A	N/A	N/A

**LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR**

SS-KTM-230515-021-01 - MON, MAY 15, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	0 CFU/g	N/A	N/A	N/A	N/A
Shiga Toxin Producing E. coli	0 CFU/g	N/A	N/A	N/A	N/A

