

CERTIFICATE OF ANALYSIS

SAMPLE NAME: RED POWDER

SAMPLE CODE: KTM-230515-020

CLIENT: TOP TREE HERBS

BATCH RESULT: PASS



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Traverse City, MI 49686
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MATRIX NAME:

Kratom - Leaf Powder

SAMPLE TYPE:

Quality Assurance

RECEIVED DATE:

Tue, May 23, 2023

PUBLISHED DATE:

Fri, May 26, 2023

BATCH CODE:

KPR2

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

Fri, May 26, 2023

RESULTS REVIEWED BY: Douglas Smith

VP - Scientific Operations

Cambium Analytica

Fri, May 26, 2023

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

ALKU-KTM-230515-020-01 - MON, MAY 15, 2023

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Major Alkaloids	2.393 %	N/A	N/A	N/A	N/A
Mitragynine	1.456 %	N/A	N/A	0.5 ug/g	N/A
Speciociliatine	0.415 %	N/A	N/A	0.5 ug/g	N/A
Paynantheine	0.298 %	N/A	N/A	0.5 ug/g	N/A
Speciogynine	0.223 %	N/A	N/A	0.5 ug/g	N/A

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

ALKL-KTM-230515-020-01 - MON, MAY 15, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.016 %	N/A	N/A	N/A	N/A
Total Minor Alkaloids	0.016 %	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-230515-020-01 - MON, MAY 15, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.310 ug/g	N/A	0.1985 ug/kg	0.6616 ug/kg	N/A
Cadmium	0.021 ug/g	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A
Chromium	2.129 ug/g	N/A	0.6272 ug/kg	2.0907 ug/kg	N/A
Copper	16.982 ug/g	N/A	0.1546 ug/kg	0.5152 ug/kg	N/A
Lead	0.421 ug/g	N/A	0.0845 ug/kg	0.2817 ug/kg	N/A
Mercury	0.019 ug/g	N/A	0.0171 ug/kg	0.0571 ug/kg	N/A
Nickel	2.877 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A

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

TAMC-KTM-230515-020-01 - 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-230515-020-01 - 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

