

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** DARK RED

**SAMPLE CODE:** KTM-230418-006

**CLIENT:** LEAD-BOTANICAL FAMILY

**BATCH RESULT:** N/A



1230 Woodmere Ave  
Traverse City, MI 49686  
231.252.3669

License #: AU-SC-000112



**MATRIX NAME:**

Kratom - Leaf Powder

**SAMPLE TYPE:**

Quality Assurance

**RECEIVED DATE:**

Tuesday, Apr 18, 2023

**PUBLISHED DATE:**

Friday, Apr 21, 2023

**BATCH CODE:**

N/A

**BATCH SIZE:**

5g

**SAMPLE SIZE:**

5g



**LAB-TM-052**

High Alkaloid Analysis  
by UPLC



**LAB-TM-047**

Low Alkaloid Analysis  
by LC-MS/MS

Handwritten signature of Leslie Varela in black ink.

**RESULTS REVIEWED BY:** Leslie Varela

Laboratory Director  
Cambium Analytica  
Friday, Apr 21, 2023

Handwritten signature of Douglas Smith in black ink.

**RESULTS REVIEWED BY:** Douglas Smith

VP - Scientific Operations  
Cambium Analytica  
Friday, Apr 21, 2023

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**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD**

ALKU-KTM-230418-006-01 - TUESDAY, APR 18, 2023

<b>ANALYTE</b>	<b>VALUE</b>	<b>ACTION LIMIT</b>	<b>LOD</b>	<b>LOQ</b>	<b>STATUS</b>
Mitragynine	0.635 %		N/A	0.5 ug/g	N/A
Paynantheine	0.148 %		N/A	0.5 ug/g	N/A
Speciociliatine	0.243 %		N/A	0.5 ug/g	N/A
Speciogynine	0.116 %		N/A	0.5 ug/g	N/A
Total Major Alkaloids	1.141 %		N/A	N/A	N/A

**LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ**

ALKL-KTM-230418-006-02 - TUESDAY, APR 18, 2023

<b>ANALYTE</b>	<b>VALUE</b>	<b>ACTION LIMIT</b>	<b>LOD</b>	<b>LOQ</b>	<b>STATUS</b>
7-Hydroxymitragynine	0.003 %		N/A	N/A	N/A
Mitraphylline	0 %		N/A	N/A	N/A
Total Minor Alkaloids	0.003 %		N/A	N/A	N/A

