

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** NEWBR 23-228

**SAMPLE CODE:** KTM-230816-022

**CLIENT:** BOTANAWAY

**BATCH RESULT:** PASS



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Traverse City, MI 49686  
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**MATRIX NAME:**  
Kratom/Kava - Liquid Extract

**SAMPLE TYPE:**  
Compliance

**RECEIVED DATE:**  
Tuesday, Aug 22, 2023

**PUBLISHED DATE:**  
Monday, Aug 28, 2023

**BATCH CODE:**  
23-228 NEWBR

**BATCH SIZE:**  
1U

**SAMPLE SIZE:**  
1U

**AVERAGE UNIT WEIGHT:**  
357.35g



**N/A**  
Determination of  
Kavalactones



**LAB-TM-052**  
High Alkaloid Analysis  
by UPLC

Handwritten signature of Leslie Varela in black ink.

**RESULTS REVIEWED BY:** Leslie Varela  
Laboratory Director  
Cambium Analytica  
Monday, Aug 28, 2023

Handwritten signature of Douglas Smith in black ink.

**RESULTS REVIEWED BY:** Douglas Smith  
VP - Scientific Operations  
Cambium Analytica  
Monday, Aug 28, 2023

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**N/A - DETERMINATION OF KAVALACTONES BY LC-DAD**  
 KAVAL-KTM-230816-022-01 - WEDNESDAY, AUG 16, 2023

| ANALYTE            | VALUE   | VALUE (PER SERVING) | ACTION LIMIT | LOD        | LOQ      | STATUS |
|--------------------|---------|---------------------|--------------|------------|----------|--------|
| Total Kavalactones | 0.022 % | 80 mg               | N/A          | N/A        | N/A      | N/A    |
| Kavain             | 0.009 % | 30.6 mg             | N/A          | 0.25 ug/g  | 1 ug/g   | N/A    |
| Dihydrokavain      | 0.006 % | 22.4 mg             | N/A          | 0.25 ug/g  | 1 ug/g   | N/A    |
| Desmethoxyyangonin | 0.003 % | 8.97 mg             | N/A          | 0.25 ug/g  | 1 ug/g   | N/A    |
| Dihydromethysticin | 0.003 % | 9.91 mg             | N/A          | 0.25 ug/g  | 1 ug/g   | N/A    |
| Yangonin           | 0.002 % | 6.89 mg             | N/A          | 0.25 ug/g  | 1 ug/g   | N/A    |
| Flavokavain A      | ND      | 0.49 mg             | N/A          | 0.025 ug/g | 0.1 ug/g | N/A    |
| Flavokavain B      | ND      | 0.522 mg            | N/A          | 0.025 ug/g | 0.1 ug/g | N/A    |
| Methysticin        | ND      | 0.211 mg            | N/A          | 0.25 ug/g  | 1 ug/g   | N/A    |

**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD**  
 ALKU-KTM-230816-022-01 - WEDNESDAY, AUG 16, 2023

| ANALYTE               | VALUE   | VALUE (PER SERVING) | ACTION LIMIT | LOD      | LOQ      | STATUS |
|-----------------------|---------|---------------------|--------------|----------|----------|--------|
| Mitragynine           | 0.006 % | 21.8 mg             | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Total Major Alkaloids | 0.006 % | 21.8 mg             | N/A          |          |          | N/A    |
| Paynantheine          | ND      | 0 mg                | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Speciociliatine       | ND      | 0 mg                | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Speciogynine          | ND      | 0 mg                | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |

