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# Certificate of Analysis

14 OCTOBER 2025

BATCH# 06-01

LOT #: RED KRATOM



|                 |                       |                     |                  |
|-----------------|-----------------------|---------------------|------------------|
| Client:         | KINGDOM KRATOM        | SAMPLE SET:         | 210890           |
| Client Address: | 4311 Centergate St    | Prepped By:         | Sarah T.         |
|                 | San Antonio, TX 78217 | Date Received:      | 10/06/2025       |
| Sample Matrix:  | Kratom                | Acquisition Method: | MIT-EVO_R2025-01 |
| Sample Type:    | Powder                | Testing ID:         | 210890_0002.D    |
| Product Size:   | Raw Material          | Date Tested:        | 10/06/2025       |

## ID/POTENCY

| # | Analyte              | Formula              | Analytical Method(s)                | Total % | Unit |
|---|----------------------|----------------------|-------------------------------------|---------|------|
| 1 | Mitragynine          | $C_{23}H_{30}N_2O_4$ | HPLC (Adapted Mudge & Brown, 2020*) | 1.79    | mg/g |
| 2 | 7-Hydroxymitragynine | $C_{23}H_{30}N_2O_5$ | HPLC (Adapted Mudge & Brown, 2020*) | N/D     | mg/g |
| 3 | Paynantheine         | $C_{23}H_{28}N_2O_4$ | HPLC (Adapted Mudge & Brown, 2020*) | 0.49    | mg/g |
| 4 | Speciogynine         | $C_{23}H_{30}N_2O_4$ | HPLC (Adapted Mudge & Brown, 2020*) | 0.36    | mg/g |
| 5 | Speciociliatine      | $C_{23}H_{30}N_2O_4$ | HPLC (Adapted Mudge & Brown, 2020*) | 0.27    | mg/g |

## BIOLOGICAL

| # | Analyte             | Spec               | Result          | Method                    | Sample Size |
|---|---------------------|--------------------|-----------------|---------------------------|-------------|
| 1 | Aerobic Plate Count | < 10,000,000 cfu/g | < 100,000 cfu/g | 0973-00 Petrifilm 2025-41 | 10g         |
| 2 | Coliforms           | < 10,000 cfu/g     | < 10,000 cfu/g  | 0973-00 Petrifilm 2025-41 | 10g         |
| 3 | Enterobacteriaceae  | < 10,000 cfu/g     | < 10,000 cfu/g  | 0973-00 Petrifilm 2025-41 | 10g         |
| 5 | Yeast & Mold        | <100,000 cfu/g     | <100,000 cfu/g  | 0972-00 Soleris 2025-41   | 10g         |
| 6 | Staphylococcus      | Absent in 10g      | Absent          | 0973-00 Petrifilm 2025-41 | 10g         |
| 7 | E. coli             | 10g                | Absent          | 0972-00 Soleris 2025-41   | 10g         |
| 8 | Salmonella          | 10g                | Absent          | 0972-00 Soleris 2025-41   | 10g         |

## HEAVY METALS

| Product #    | Lot #      | Metals  | Spec         | Results |
|--------------|------------|---------|--------------|---------|
| Batch# 06-01 | Red Kratom | Arsenic | < 10,000 ppb | 280 ppb |
|              |            | Cadmium | < 4,100 ppb  | 20 ppb  |
|              |            | Lead    | < 900 ppb    | 280 ppb |
|              |            | Mercury | < 300 ppb    | 10 ppb  |

Mitragynine Content: **18 mg / g**

Heavy Metals: **Within Spec**

Biological: **Within Spec**



### SEAL OF AUTHENTICITY

VERIFIED BY: *[Signature]*

Quality Assurance: *Sarah T.*

\* Method conforms to AOAC methods for Microbial and Kratom Working Group SMPRs for mitragynine and 7-OH w/internal lab method MIT-EVO\_R2025-01.

\*\* LOD for 7-Hydroxymitragynine (7-OH) is 0.1ppm and N/D on this COA indicates a value below the LOD. | Page 1 of 1