Columbia LABORATORIES
A Tentamus Company

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**Report Number:** 23-009918/D003.R002
**Report Date:** 11/09/2023
**Purchase Order:**
**Received:** 08/21/23 10:23 AM

**This is an amended version of report# 23-009918/D003.R001.**
**Reason: Updated Sample ID**

**Customer:** Kats Botanicals
United States of America (USA)

**Sample ID:** 45% softgel capsules Lot 102625 Expiration: 08/01/2025
**Sample Matrix:** Kratom Gel Caps
**Laboratory ID:** 23-009918-0001
**Evidence of Cooling:** No
**Temp:** 22.1 °C
**Relinquished by:** UPS

## Sample Results

### Metals

**Heavy Metals Profile K**

| Analyte | Result | Units | LOQ | Analyzed | Method | Threshold | Pass/Fail | Notes |
|---|---|---|---|---|---|---|---|---|
| Arsenic | < LOQ | mg/kg | 0.0363 | 08/25/23 | AOAC 2013.06 (mod.)þ | 2.08 | pass | |
| Cadmium | < LOQ | mg/kg | 0.0363 | 08/25/23 | AOAC 2013.06 (mod.)þ | 0.850 | pass | |
| Lead | < LOQ | mg/kg | 0.0363 | 08/25/23 | AOAC 2013.06 (mod.)þ | 1.25 | pass | |
| Mercury | < LOQ | mg/kg | 0.0182 | 08/25/23 | AOAC 2013.06 (mod.)þ | 0.410 | pass | |
| Nickel | 0.113 | mg/kg | 0.0363 | 08/25/23 | AOAC 2013.06 (mod.)þ | 20.0 | pass | |

### Microbiology

**Custom Microbiology Profile**

| Analyte | Result | Units | LOQ | Analyzed | Method | Threshold | Pass/Fail | Notes |
|---|---|---|---|---|---|---|---|---|
| Aerobic Plate Count | < LOQ | cfu/g | 10 | 08/29/23 | AOAC 990.12 (Petrifilm)þ | 10,000 | pass | |
| E.coli | < LOQ | cfu/g | 10 | 08/29/23 | AOAC 991.14 (Petrifilm)þ | 100 | pass | |
| Enterobacteriaceae | < LOQ | cfu/g | 10 | 08/28/23 | AOAC 2003.01þ | 1,000 | pass | |
| Mold (RAPID Petrifilm) | < LOQ | cfu/g | 10 | 08/29/23 | AOAC 2014.05 (RAPID)þ | 1,000 | pass | |
| Yeast (RAPID Petrifilm) | < LOQ | cfu/g | 10 | 08/29/23 | AOAC 2014.05 (RAPID)þ | 1000 | pass | |
| Salmonella spp. by PCR | Negative | /25g | - | 08/28/23 | AOAC 2020.02þ[1] | Negative | pass | |

1) GENE-UP® Assay

### Mitragynine

**Mitragynine**

| Analyte | Result | Units | LOQ | Analyzed | Method | Threshold | Pass/Fail | Notes |
|---|---|---|---|---|---|---|---|---|
| Mitragynine | 5.21 | % | 0.0500 | 08/25/23 | In house method by HPLC-DADþ | | | |





*Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.*