



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 06/23/2023

Analysis ID No. 231901  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20230476  
Page No. Page 1 of 2

| CUSTOMER INFORMATION                        | SAMPLE INFORMATION                                 |
|---------------------------------------------|----------------------------------------------------|
| <b>Company Name:</b>                        | <b>Submitted Sample Name:</b>                      |
| Kats Kratom                                 | Kratom Leaf Powder                                 |
| <b>Address:</b>                             | <b>Submitted Sample Lot:</b>                       |
| 619 Old Hickory Blvd, Old Hickory, TN 37138 | 400201GMDP                                         |
| <b>Phone Number:</b>                        | <b>Submitted Sample Description:</b>               |
| 877-301-9923                                | Green Powder in White Resealable Bag; Stored at RT |
| <b>Contact Name / Email:</b>                | <b>Submitted Sample Product Type / Matrix:</b>     |
| Not Provided                                | Kratom Leaf Powder / Plant Matter                  |

| ALKALOIDS ASSAY    |             |           |                                                                        |                           |                  |
|--------------------|-------------|-----------|------------------------------------------------------------------------|---------------------------|------------------|
| Analysis           | Test Method | LOQ       | Specifications                                                         | Test Results              | Pass / Fail      |
| Mitragynine        | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 1.464 w/w%<br>14.637 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.275 w/w%<br>2.748 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.240 w/w%<br>2.401 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.358 w/w%<br>3.577 mg/g  | Results Reported |
| 7-OH-Mitragynine   | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>% of Total Alkaloids: NMT 2% | < 0.010 w/w%              | PASS             |
| Mitraphylline      | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Results Reported |
| Isorhynchophylline | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Results Reported |
| Corynoxine         | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.030 w/w%<br>0.302 mg/g  | Results Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 2.367 w/w%<br>23.665 mg/g | Results Reported |

| MICROBIOLOGICAL ASSAY            |                |             |                       |              |             |
|----------------------------------|----------------|-------------|-----------------------|--------------|-------------|
| Analysis                         | Test Method    | LOQ         | Specifications        | Test Results | Pass / Fail |
| Total Aerobic Plate Count (TAPC) | Isolation Agar | 20 CFU/gm   | NMT 10,000,000 CFU/gm | 60 CFU/gm    | PASS        |
| Total Yeast & Mold (TYM)         | Isolation Agar | 20 CFU/gm   | NMT 100,000 CFU/gm    | < LOQ        | PASS        |
| Coliforms                        | Isolation Agar | 20 CFU/gm   | NMT 10,000 CFU/gm     | < LOQ        | PASS        |
| Escherichia coli (E.coli)        | Isolation Agar | 1 CFU/10 gm | Absent in 10 gm       | Absent       | PASS        |
| Salmonella                       | Isolation Agar | 1 CFU/25 gm | Absent in 25 gm       | Absent       | PASS        |



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 06/23/2023

Analysis ID No. 231901  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Purchase Order: 20230476  
 Page No. Page 2 of 2

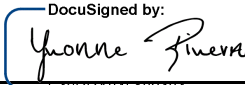
| HEAVY METALS ASSAY |                              |             |                  |              |             |
|--------------------|------------------------------|-------------|------------------|--------------|-------------|
| Analysis           | Test Method                  | LOQ         | Specifications   | Test Results | Pass / Fail |
| Lead               | USP <232> <233><br>by ICP-MS | 0.01 mcg/g  | NMT 1.250 mcg/g  | 0.457 mcg/g  | PASS        |
| Mercury            | USP <232> <233><br>by ICP-MS | 0.005 mcg/g | NMT 0.200 mcg/g  | 0.020 mcg/g  | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 0.01 mcg/g  | NMT 1.000 mcg/g  | 0.308 mcg/g  | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 0.01 mcg/g  | NMT 0.400 mcg/g  | 0.028 mcg/g  | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 0.05 mcg/g  | NMT 20.000 mcg/g | 2.246 mcg/g  | PASS        |

| TESTING FACILITY INFORMATION                                                               | SAMPLE INFORMATION                                                                                                                                                     |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Santé Laboratories</b><br>8201 East Riverside Drive, STE 650<br>Austin, Texas 78744 USA | <b>Santé Sample ID:</b> 231901<br><b>Receipt Date:</b> 06/20/2023 / 03:15 PM CST / C. Ritchie<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 06/21/2023 |

| ADDITIONAL REPORT NOTES                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. <b>Heavy metal specifications according to limits provided by Customer. Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).</b><br>©2020 Santé Laboratories, LLC – All Rights Reserved |

| VERSION HISTORY |                |                    |
|-----------------|----------------|--------------------|
| Version         | Effective Date | Summary of Changes |
| 00              | 06/23/2023     | Initial Release    |

| PRODUCT SAMPLE / IMAGE                                                               |
|--------------------------------------------------------------------------------------|
|  |

| REVIEWED AND APPROVED BY                                                                                                                                                                                                 |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <div><div>DocuSigned by:</div><div></div></div> <div><b>Yvonne Rivera</b><br/>Data Management Specialist<br/>Santé Laboratories</div> | <div>23 June 2023   3:03:33 PM PDT</div> <div>Date</div> |

Santé Laboratories, LLC - 8201 East Riverside Drive, STE 650, Austin, Texas 78744 USA  
 Email: [Testing@santelabs.com](mailto:Testing@santelabs.com) - Telephone: 512-309-5830 - Website: [www.santelabs.com](http://www.santelabs.com)

This report may not be reproduced, except in full, without the permission of Santé Laboratories, LLC.