



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 06/30/2023

Analysis ID No. 231942  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Purchase Order: 20230488  
 Page No. Page 1 of 2

| CUSTOMER INFORMATION                          | SAMPLE INFORMATION                             |
|---|--|
| <b>Company Name:</b>                          | <b>Submitted Sample Name:</b>                  |
| Steding & Sons Mercantile                     | Kratom Powdered Leaf                           |
| <b>Address:</b>                               | <b>Submitted Sample Lot:</b>                   |
| 1501 Panther Loop #7A, Pflugerville, TX 78660 | SP151923                                       |
| <b>Phone Number:</b>                          | <b>Submitted Sample Description:</b>           |
| 512-704-3680                                  | Green Powder in Retail Packaging; Stored at RT |
| <b>Contact Name / Email:</b>                  | <b>Submitted Sample Product Type / Matrix:</b> |
| Jeremy Steding / info@1836kratom.com          | 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                                 | 1.067 w/w%<br>10.673 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.197 w/w%<br>1.972 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.192 w/w%<br>1.922 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.377 w/w%<br>3.768 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                                 | < 0.010 w/w%              | Results Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 1.834 w/w%<br>18.336 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 | 3,575 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: 06/30/2023

Analysis ID No. 231942  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20230488  
Page No. Page 2 of 2


| HEAVY METALS ASSAY |                           |        |                 |              |             |
|--------------------|---------------------------|--------|-----------------|--------------|-------------|
| Analysis           | Test Method               | LOQ    | Specifications  | Test Results | Pass / Fail |
| Lead               | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb   | 338.5 ppb    | PASS        |
| Mercury            | USP <232> <233> by ICP-MS | 5 ppb  | NMT 500 ppb     | 19.7 ppb     | PASS        |
| Arsenic            | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb   | 239.4 ppb    | PASS        |
| Cadmium            | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb     | 20.6 ppb     | PASS        |
| Nickel             | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | 1,650.9 ppb  | 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> 231942<br><b>Receipt Date:</b> 06/23/2023 / 12:00 PM CST / C. Ritchie<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 06/26/2023 |

| ADDITIONAL REPORT NOTES   |
|---|
| <p>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 defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP &lt;232&gt;. Microbiological limits according to specifications defined by AHPA for botanical extracts.</b></p> <p>©2020 Santé Laboratories, LLC – All Rights Reserved</p> |

| VERSION HISTORY |                |                    |
|-----------------|----------------|--------------------|
| Version         | Effective Date | Summary of Changes |
| 00              | 06/30/2023     | Initial Release    |

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

| REVIEWED AND APPROVED BY   |
|--|
| <p>DocuSigned by:<br/><br/>Cody Shoop<br/>044651A239C6425...</p> <p>30 June 2023   3:05:11 PM PDT</p> <p>_____<br/>Date</p> <p><b>Cody Shoop</b><br/>Quality Assurance Associate<br/>Santé Laboratories</p> |

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.