



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 09/20/2022

Analysis ID No. 223966  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Purchase Order: 20221117  
 Page No. Page 1 of 2

| CUSTOMER INFORMATION                         | SAMPLE INFORMATION                                       |
|--|--|
| <b>Company Name:</b>                         | <b>Submitted Sample Name:</b>                            |
| Steding & Sons Mercantile                    | Shangri La La  |
| <b>Address:</b>                              | <b>Submitted Sample Lot:</b>                             |
| 1501 Panther Loop #7A Pflugerville, TX 78660 | LL152920 b D0P090822                                     |
| <b>Phone Number:</b>                         | <b>Submitted Sample Description:</b>                     |
| 512-704-3680                                 | Green Powder in Resealable Mylar 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                              | 1.554 w/w%<br>15.541 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.266 w/w%<br>2.664 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.220 w/w%<br>2.195 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.417 w/w%<br>4.168 mg/g  | Results Reported |
| 7-OH-Mitragynine   | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>% 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                              | 0.026 w/w%<br>0.260 mg/g  | Results Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 2.483 w/w%<br>24.829 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 CFU/gm | < LOQ        | PASS        |
| Total Yeast & Mold (TYM)         | Isolation Agar | 20 CFU/gm   | NMT 1,000 CFU/gm  | < LOQ        | PASS        |
| Coliforms                        | Isolation Agar | 20 CFU/gm   | NMT 100 CFU/gm    | < LOQ        | PASS        |
| Esherichia 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        |

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)

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| HEAVY METALS ASSAY |                              |        |                 |              |             |
|--------------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis           | Test Method                  | LOQ    | Specifications  | Test Results | Pass / Fail |
| Lead               | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,000 ppb   | 752.5 ppb    | PASS        |
| Mercury            | USP <232> <233><br>by ICP-MS | 5 ppb  | NMT 500 ppb     | < LOQ        | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1500 ppb    | 628.2 ppb    | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 300 ppb     | < LOQ        | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 50 ppb | NMT 200,000 ppb | 3,058.2 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> 223966<br><b>Receipt Date:</b> 09/09/2022 / 04:00 PM CST / C. Ritchie<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 09/14/2022 |

| 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 specifications follow AHPA guidelines for botanical ingredients (non-extract).</b></p> <p>©2020 Santé Laboratories, LLC – All Rights Reserved</p> |

| VERSION HISTORY |                |                    |
|-----------------|----------------|--------------------|
| Version         | Effective Date | Summary of Changes |
| 00              | 09/20/2022     | Initial Release    |

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

| REVIEWED AND APPROVED BY   |
|--|
| <p>DocuSigned by:<br/><i>Brian Sloat</i></p> <p>20 September 2022   5:07:18 PM PDT<br/>Date <span style="float: right;">DD-MM-YY</span></p> <p><b>Brian Sloat, Ph.D.</b><br/>Chief Scientific Officer / Quality Manager<br/>Santé Laboratories</p> |