



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 09/28/2021

Analysis ID No. 213378
 TDA License No. 2020002
 ISO/IEC No. 1055838
 Purchase Order: 20210847
 Page No. Page 1 of 2

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|---|
| Company Name: | Submitted Sample Name: |
| Steding & Sons Mercantile | Texas Red, Powdered Tea Leaf, 4oz. |
| Address: | Submitted Sample Lot: |
| 13200 Pond Spring Rd. #E39, Austin, Texas 78729 USA | TR151916 A |
| Phone Number: | Submitted Sample Description: |
| 512-704-3680 | Powder in Sealed Mylar Pouch; Stored at Rm Temp |
| Contact Name / Email: | Submitted Sample Product Type / Matrix: |
| 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 mg/g: Report Only | 1.260 w/w% 12.595 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.284 w/w% 2.836 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.190 w/w% 1.898 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.418 w/w% 4.175 mg/g | Results Reported |
| 7-OH-Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only % Total Alkaloids: NMT 2% | < 0.01 w/w% | PASS |
| Mitraphylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | < 0.01 w/w% | Results Reported |
| Isorhynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.010 w/w% 0.101 mg/g | Results Reported |
| Corynoxine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.081 w/w% 0.813 mg/g | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 2.242 w/w% 22.419 mg/g | Results Reported |

| HEAVY METALS | | | | | |
|--------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb | 644.2 ppb | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | 17.7 ppb | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | 22.3 ppb | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb | 196.9 ppb | PASS |
| Nickel | USP <232> <233> by ICP-MS | 10 ppb | NMT 200,000 ppb | 1,362.3 ppb | PASS |

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

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| 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 | 119,500 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 100,000 CFU/gm | 170 CFU/gm | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 10,000 CFU/gm | 215 CFU/gm | PASS |
| Escherichia coli (E.coli) | Isolation Agar | 1 CFU/10g | Absent | Absent | PASS |
| Salmonella | Isolation Agar | 1 CFU/25g | Absent | Absent | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|--|--|
| Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA | Santé Sample ID: 213378 Receipt Date: 09/21/2021 / 12:46 PM CST / M. Cardona Receipt Condition: Good Analysis Start Date: 09/22/2021 |

| 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. Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).</p> <p>©2021 Santé Laboratories, LLC – All Rights Reserved</p> |

| VERSION HISTORY | | |
|-----------------|----------------|--------------------|
| Version | Effective Date | Summary of Changes |
| 00 | 09/28/2021 | Initial Release |

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

| REVIEWED AND APPROVED BY | |
|---|--|
| <p>DocuSigned by: <i>Brian Sloat</i></p> <p>Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories</p> | <p>28 September 2021 6:23:13 PM PDT DD-MM-YY</p> <p>Date</p> |