



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 02/03/2023

Analysis ID No. 230267
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20230063
Page No. Page 1 of 2

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|--|
| Company Name: | Submitted Sample Name: |
| Steding & Sons Mercantile | N/A |
| Address: | Submitted Sample Lot: |
| 1501 Panther Loop #7A, Pflugerville, TX 78660 | GM151922A |
| Phone Number: | Submitted Sample Description: |
| 512-704-3680 | Green Powder in Retail Packaging; Stored at RT |
| Contact Name / Email: | Submitted Sample Product Type / Matrix: |
| Jeremy Steding / info@1836kratom.com | Kratom 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 | 1.356 w/w% 13.562 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.304 w/w% 3.040 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.217 w/w% 2.166 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.241 w/w% 2.412 mg/g | Results Reported |
| 7-OH-Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only % of Total Alkaloids: NMT 2% | < 0.010 w/w% | PASS |
| Mitraphylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | < 0.010 w/w% | Results Reported |
| Isorhynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | < 0.010 w/w% | Results Reported |
| Corynoxine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | < 0.010 w/w% | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 2.118 w/w% 21.180 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 | 525 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 100,000 CFU/gm | 20 CFU/gm | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 10,000 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 |

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Page No. Page 2 of 2

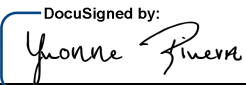
| HEAVY METALS ASSAY | | | | | |
|--------------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb | 666.5 ppb | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | 22.7 ppb | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb | 250.2 ppb | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | 27.7 ppb | PASS |
| Nickel | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | 2,273.7 ppb | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|--|--|
| Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA | Santé Sample ID: 230267 Receipt Date: 01/25/2023 / 01:00 PM CST / K. Cobbett Receipt Condition: Good Analysis Start Date: 01/27/2023 |

| 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. Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel and Chromium specification according to oral drug products per USP <232>. Microbiological limits according to specifications defined by AHPA for botanical extracts.</p> <p>©2020 Santé Laboratories, LLC – All Rights Reserved</p> |

| VERSION HISTORY | | |
|-----------------|----------------|--------------------|
| Version | Effective Date | Summary of Changes |
| 00 | 02/03/2023 | Initial Release |

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

| REVIEWED AND APPROVED BY |
|--|
| <p>DocuSigned by:  Yvonne Rivera Data Management Specialist Santé Laboratories</p> <p>03 February 2023 2:05:11 PM PST</p> <p>Date</p> |