



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 09/30/2020

Analysis ID No. 201438
 TDA License No. 2020002
 ISO/IEC No. 1055838
 Customer No. 20201421
 Page No. Page 1 of 2

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|--|---|
| Company Name: | Submitted Sample Name: |
| Steding & Sons Mercantile | TR200902 |
| Address: | Submitted Sample Lot: |
| PO Box 200085; Austin, TX 78720 USA | Not Provided |
| Phone Number: | Submitted Sample Description: |
| 512-704-3680 | Kratom Powder In Zip Loc Bag; Arrived/Stored at Room T. |
| Contact Name / Email: | Submitted Sample Product Type / Matrix: |
| Jeremy Steding / jeremy@1836kratom.com | Kratom Plant Matter / Leaf Powder |

| KRATOM ALKALOIDS | | | | | |
|-------------------|-------------|-----------|---|-------------------------|------------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Mitaphylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | ND | Results Reported |
| 7-OH-Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only % Total Alkaloids: NMT 2% | ND | PASS |
| Isorynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.066 w/w% 0.66 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.056 w/w% 0.56 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.069 w/w% 0.69 mg/g | Results Reported |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.528 w/w% 5.28 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.228 w/w% 2.28 mg/g | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.947 w/w% 9.47 mg/g | Results Reported |

| MICROBIOLOGICAL | | | | | |
|----------------------------------|----------------|-----------|-----------------------|---------------|-------------|
| 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 | 31,600 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 100,000 CFU/gm | 1.380 CFU/gm | PASS |
| Escherichia coli (E.coli) | Isolation Agar | 1 CFU/25g | Absent | Absent | PASS |
| Salmonella | Isolation Agar | 1 CFU/25g | Absent | Absent | PASS |



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| HEAVY METALS | | | | | |
|--------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb | 147.9 ppb | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | 26.4 ppb | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb | 484.0 ppb | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | 19.8 ppb | PASS |
| Nickel | USP <232> <233> by ICP-MS | 10 ppb | NMT 200,000 ppb | 3,925.0 ppb | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|--|---|
| Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA | Santé Sample ID: 201438 Receipt Date: 09/22/2020 / 11:20 AM / S. ORTEGA Receipt Condition: Good Analysis Start Date: 09/22/2020 |

| 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. Microbiological specifications follow AHPA guidelines for botanical ingredients. ©2020 Santé Laboratories, LLC – All Rights Reserved |

| VERSION HISTORY | | |
|-----------------|----------------|--------------------|
| Version | Effective Date | Summary of Changes |
| 00 | 09/30/2020 | Initial Release |



| REVIEWED AND APPROVED BY | | |
|---|-------------------|----------|
| DocuSigned by: Brian R Sloat 51277B7C6FDA460... | 9/30/2020 Date | DD-MM-YY |
| Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories | | |