



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 04/23/2022

Analysis ID No. 221813
 TDA License No. 2020002
 ISO/IEC No. 1055838
 Purchase Order: 20220481
 Page No. Page 1 of 2

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|---|
| Company Name: | Submitted Sample Name: |
| Southwell Research Providers | Green Maeng Da 7-13.4 |
| Address: | Submitted Sample Lot: |
| 1973 W. Gray Street, Ste 23, Houston, Texas USA | 22.04.01AX |
| Phone Number: | Submitted Sample Description: |
| 713-320-4773 | Green Powder in Sealed Kraft Pouch; Stored at Rm Temp |
| Contact Name / Email: | Submitted Sample Product Type / Matrix: |
| Southwellresearchproviders@gmail.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 | 1.440 w/w% 14.405 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.285 w/w% 2.852 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.212 w/w% 2.121 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.385 w/w% 3.853 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% | < 0.010 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 | 0.024 w/w% 0.236 mg/g | Results Reported |
| Corynoxine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 0.055 w/w% 0.553 mg/g | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only | 2.402 w/w% 24.021 mg/g | Results Reported |

| HEAVY METALS ASSAY | | | | | |
|--------------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1000 ppb | 766.9 ppb | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | 21.0 ppb | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1500 ppb | 197.3 ppb | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | 28.4 ppb | PASS |
| Nickel | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | 2,930.5 ppb | PASS |

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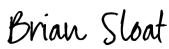
| MICROBIOLOGICAL ASSAY | | | | | |
|----------------------------------|----------------|-------------|-----------------------|----------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Total Aerobic Plate Count (TAPC) | Isolation Agar | 20 CFU/gm | NMT 10,000,000 CFU/gm | 172,500 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 100,000 CFU/gm | 1,830 CFU/gm | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 10,000 CFU/gm | 1,750 CFU/gm | 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 |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|--|--|
| Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA | Santé Sample ID: 221813 Receipt Date: 04/13/2022 / 1:25 PM CST / M Cardona Receipt Condition: Good Analysis Start Date: 04/15/2022 |

| ADDITIONAL REPORT NOTES |
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| 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. ©2020 Santé Laboratories, LLC – All Rights Reserved |

| VERSION HISTORY | | |
|-----------------|----------------|--------------------|
| Version | Effective Date | Summary of Changes |
| 00 | 04/23/2022 | Initial Release |

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

| REVIEWED AND APPROVED BY |
|--|
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;"> <p>DocuSigned by:</p>  <p>Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories</p> <p><small>1DA7685D65C740B...</small></p> </div> <div style="text-align: center;"> <p>23 April 2022 5:25:26 PM PDT</p> <p>_____ Date</p> </div> <div style="text-align: right;"> <p>_____ DD-MM-YY</p> </div> </div> |