



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 03/30/2022

Analysis ID No. 221390  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20220375  
Page No. Page 1 of 2

| CUSTOMER INFORMATION  | SAMPLE INFORMATION  |
|---|---|
| <b>Company Name:</b><br>Super Organics  | <b>Submitted Sample Name:</b><br>Kratom Leaf Powder   |
| <b>Address:</b><br>7901 4 <sup>th</sup> St N STE 300; St Petersburg, Florida 33702 US | <b>Submitted Sample Lot:</b><br>0001894   |
| <b>Phone Number:</b><br>754-800-5219  | <b>Submitted Sample Description:</b><br>Green Powder in Plastic Bag w/ Twist Tie; Stored at Rm Temp |
| <b>Contact Name / Email:</b><br>N/A   | <b>Submitted Sample Product Type / Matrix:</b><br>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                              | 1.263 w/w%<br>12.631 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.255 w/w%<br>2.550 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.205 w/w%<br>2.050 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.395 w/w%<br>3.947 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% | < 0.01 w/w%               | PASS             |
| Mitraphylline      | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | < 0.01 w/w%               | Results Reported |
| Isorhynchophylline | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | < 0.01 w/w%               | Results Reported |
| Corynoxine         | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.011 w/w%<br>0.105 mg/g  | Results Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 2.128 w/w%<br>21.282 mg/g | Results Reported |

| HEAVY METALS ASSAY |                              |        |                 |              |             |
|--------------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis           | Test Method                  | LOQ    | Specifications  | Test Results | Pass / Fail |
| Lead               | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1000 ppb    | 398.2 ppb    | PASS        |
| Mercury            | USP <232> <233><br>by ICP-MS | 5 ppb  | NMT 500 ppb     | 19.1 ppb     | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1500 ppb    | 209.1 ppb    | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 300 ppb     | 22.7 ppb     | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 50 ppb | NMT 200,000 ppb | 2,714.7 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 | 6,000 CFU/gm | PASS        |
| Total Yeast & Mold (TYM)         | Isolation Agar | 20 CFU/gm   | NMT 100,000 CFU/gm    | 210 CFU/gm   | PASS        |
| Coliforms                        | Isolation Agar | 20 CFU/gm   | NMT 10,000 CFU/gm     | < LOQ        | 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  |
|--|---|
| <b>Santé Laboratories</b><br>8201 East Riverside Drive, STE 650<br>Austin, Texas 78744 USA | <b>Santé Sample ID:</b> 221390<br><b>Receipt Date:</b> 03/25/2022 / 10:50 AM CST / M Cardona<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 03/28/2022 |

| 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              | 03/30/2022     | Initial Release    |

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

| REVIEWED AND APPROVED BY  |
|---|
| <p>DocuSigned by:<br/><i>Brian Sloat</i><br/>1DA7685D65C740B...</p> <p>30 March 2022   6:04:35 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> |