



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 11/28/2022

Analysis ID No. 225170  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20221411  
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| CUSTOMER INFORMATION                        | SAMPLE INFORMATION                                  |
|---------------------------------------------|-----------------------------------------------------|
| <b>Client Name:</b>                         | <b>Submitted Sample Name:</b>                       |
| Kats Kratom                                 | Kratom Powder                                       |
| <b>Address:</b>                             | <b>Submitted Sample Lot:</b>                        |
| 619 Old Hickory Blvd, Old Hickory, TN 37138 | 228073ATWP                                          |
| <b>Phone Number:</b>                        | <b>Submitted Sample Description:</b>                |
| 877-301-9923                                | Green Powder in White Mylar Packaging; Stored at RT |
| <b>Contact Name / Email:</b>                | <b>Submitted Sample Product Type / Matrix:</b>      |
| N/A                                         | 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<br>mg/g: Report Only                                 | 1.182 w/w%<br>11.823 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.274 w/w%<br>2.742 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.187 w/w%<br>1.867 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.253 w/w%<br>2.531 mg/g  | Results Reported |
| 7-OH-Mitragynine   | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>% of Total Alkaloids: NMT 2% | < 0.010 w/w%              | PASS             |
| Mitraphylline      | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Results Reported |
| Isorhynchophylline | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Results Reported |
| Corynoxine         | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Results Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 1.896 w/w%<br>18.963 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 | 855 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        |
| 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        |



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| HEAVY METALS ASSAY |                              |             |                  |              |             |
|--------------------|------------------------------|-------------|------------------|--------------|-------------|
| Analysis           | Test Method                  | LOQ         | Specifications   | Test Results | Pass / Fail |
| Lead               | USP <232> <233><br>by ICP-MS | 0.01 mcg/g  | NMT 1.250 mcg/g  | 0.491 mcg/g  | PASS        |
| Mercury            | USP <232> <233><br>by ICP-MS | 0.005 mcg/g | NMT 0.200 mcg/g  | 0.021 mcg/g  | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 0.01 mcg/g  | NMT 1.000 mcg/g  | 0.284 mcg/g  | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 0.01 mcg/g  | NMT 0.400 mcg/g  | 0.034 mcg/g  | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 0.05 mcg/g  | NMT 20.000 mcg/g | 2.928 mcg/g  | 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> 225170<br><b>Receipt Date:</b> 11/17/2022 / 12:30 PM CST / M. Husain<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 11/18/2022 |

| 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. <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><br>©2020 Santé Laboratories, LLC – All Rights Reserved |

| VERSION HISTORY |                |                    |
|-----------------|----------------|--------------------|
| Version         | Effective Date | Summary of Changes |
| 00              | 11/28/2022     | Initial Release    |

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

| REVIEWED AND APPROVED BY                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>DocuSigned by:</div> <div> </div> </div> <div> <b>Brian Sloat, Ph.D.</b><br/>           Chief Scientific Officer / Quality Manager<br/>           Santé Laboratories         </div> <div>           28 November 2022   9:45:14 AM PST<br/>           Date         </div> |