



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 06/11/2021

Analysis ID No. 211704  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Customer No. 20210500  
Page No. Page 1 of 2

| CUSTOMER INFORMATION                               | SAMPLE INFORMATION                                         |
|----------------------------------------------------|------------------------------------------------------------|
| <b>Company Name:</b>                               | <b>Submitted Sample Name:</b>                              |
| Kats Botanicals                                    | Kratom Leaf Powder                                         |
| <b>Address:</b>                                    | <b>Submitted Sample Lot:</b>                               |
| 6300 N Andrews Ave #297; Fort Lauderdale, FL 33309 | 0001350                                                    |
| <b>Phone Number:</b>                               | <b>Submitted Sample Description:</b>                       |
| (877) 301-9923                                     | Green Powder in Plastic Bag w/ Twist Tie; Stored at Room T |
| <b>Contact Name / Email:</b>                       | <b>Submitted Sample Product Type / Matrix:</b>             |
| N/A                                                | Kratom Plant Matter / Leaf Powder                          |

| 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                              | 1.191 w/w%<br>11.909 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.270 w/w%<br>2.703 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.142 w/w%<br>1.420 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 0.436 w/w%<br>4.364 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%                   | PASS             |
| Mitraphylline      | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | < 0.01%                   | Results Reported |
| Isorhynchophylline | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | < 0.01%                   | Results Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                              | 2.040 w/w%<br>20.396 mg/g | Results Reported |

| HEAVY METALS |                              |        |                 |              |             |
|--------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis     | Test Method                  | LOQ    | Specifications  | Test Results | Pass / Fail |
| Lead         | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,000 ppb   | 895.3 ppb    | PASS        |
| Mercury      | USP <232> <233><br>by ICP-MS | 5 ppb  | NMT 500 ppb     | 20.1 ppb     | PASS        |
| Cadmium      | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 300 ppb     | 24.3 ppb     | PASS        |
| Arsenic      | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,500 ppb   | 460.1 ppb    | PASS        |
| Nickel       | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 200,000 ppb | 2,237.1 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 | 4,900 CFU/gm | PASS        |
| Total Yeast & Mold (TYM)         | Isolation Agar | 20 CFU/gm   | NMT 100,000 CFU/gm    | < LOQ        | PASS        |
| Coliforms                        | Isolation Agar | 20 CFU/gm   | NMT 10,000 CFU/gm     | 460 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                                                                                                                                                    |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Santé Laboratories</b><br>8201 East Riverside Drive, STE 650<br>Austin, Texas 78744 USA | <b>Santé Sample ID:</b> 211704<br><b>Receipt Date:</b> 06/04/2021 / 08:00 AM CST / S. ORTEGA<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 06/04/2021 |

| 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              | 06/11/2021     | Initial Release    |

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

| REVIEWED AND APPROVED BY                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>DocuSigned by:</div> <div><i>Brian Sloat</i></div> <div>1DA7665D68C740B...</div> </div> <div> <div>6/11/2021</div> <div>Date</div> </div> <div> <div>DD-MM-YY</div> </div> |
| <b>Brian Sloat, Ph.D.</b><br>Chief Scientific Officer / Quality Manager<br>Santé Laboratories                                                                                         |

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