



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 01/19/2023

Analysis ID No. 225012  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Purchase Order: 20221363  
 Page No. Page 1 of 2

| SAMPLE INFORMATION                                        |
|-----------------------------------------------------------|
| <b>Submitted Sample Name:</b>                             |
| Whole Herbs Green Vein Maeng Da Kratom Powder             |
| <b>Submitted Sample Lot:</b>                              |
| N/A                                                       |
| <b>Submitted Sample Description:</b>                      |
| Khaki powder in sealed plastic bag, labeled; Stored at RT |
| <b>Submitted Sample Product Type / Matrix:</b>            |
| Kratom Leaf / Powder                                      |

| 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 | < LOQ        | 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     | < 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        |

| HEAVY METALS ASSAY |                           |        |                 |              |             |
|--------------------|---------------------------|--------|-----------------|--------------|-------------|
| Analysis           | Test Method               | LOQ    | Specifications  | Test Results | Pass / Fail |
| Lead               | USP <232> <233> by ICP-MS | 10 ppb | NMT 1000 ppb    | 441.1 ppb    | PASS        |
| Mercury            | USP <232> <233> by ICP-MS | 5 ppb  | NMT 500 ppb     | 17.2 ppb     | PASS        |
| Arsenic            | USP <232> <233> by ICP-MS | 10 ppb | NMT 1500 ppb    | 135.5. ppb   | PASS        |
| Cadmium            | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb     | 26.2 ppb     | PASS        |
| Nickel             | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | 2,209.1 ppb  | 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> 225012<br><b>Receipt Date:</b> 11/03/2022 / 09:00 AM CST / M. Husain<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 11/04/2022 |

| 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              | 01/09/2023     | Initial Release                                              |
| 01              | 01/19/2023     | Separation of Alkaloids Assay and Contact Information Update |

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**PRODUCT SAMPLE / IMAGE****REVIEWED AND APPROVED BY**

DocuSigned by:

E49DDA845186484...

19 January 2023 | 2:22:39 PM PST

Date

**Yvonne Rivera**Data Management Specialist  
Santé Laboratories