



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 08/28/2023

Analysis ID No. 232660  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20230617  
Page No. Page 1 of 2

| CUSTOMER INFORMATION         | SAMPLE INFORMATION                                   |
|------------------------------|------------------------------------------------------|
| <b>Client Name:</b>          | <b>Submitted Sample Name:</b>                        |
| Motark                       | Plane Wreck                                          |
| <b>Address:</b>              | <b>Submitted Sample Lot:</b>                         |
| N/A                          | 7232308                                              |
| <b>Phone Number:</b>         | <b>Submitted Sample Description:</b>                 |
| N/A                          | Green Powder in Brown Mylar Bag; Stored at Room Temp |
| <b>Contact Name / Email:</b> | <b>Submitted Sample Product Type / Matrix:</b>       |
| N/A                          | 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                                 | 1.992 w/w%<br>19.917 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.459 w/w%<br>4.589 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.376 w/w%<br>3.760 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.694 w/w%<br>6.937 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                                 | 3.520 w/w%<br>35.203 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 | 660 CFU/gm   | PASS        |
| Total Yeast & Mold (TYM)         | Isolation Agar | 20 CFU/gm   | NMT 100,000 CFU/gm    | 3,333 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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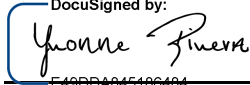
| HEAVY METALS ASSAY |                              |        |                |              |             |
|--------------------|------------------------------|--------|----------------|--------------|-------------|
| Analysis           | Test Method                  | LOQ    | Specifications | Test Results | Pass / Fail |
| Lead               | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,000 ppb  | 613.3 ppb    | PASS        |
| Mercury            | USP <232> <233><br>by ICP-MS | 5 ppb  | NMT 500 ppb    | 21.3 ppb     | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,500 ppb  | 387.9 ppb    | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 300 ppb    | 19.2 ppb     | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 50 ppb | NMT 20,000 ppb | 1,991.1 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> 232660<br><b>Receipt Date:</b> 08/24/2023 /09:00 AM CST / K. Faulkner<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 08/24/2023 |

| 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              | 08/28/2023     | Initial Release    |

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

| REVIEWED AND APPROVED BY                                                                                                                                                                                |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| DocuSigned by:<br><br>E49DDA045106404...<br><b>Yvonne Rivera</b><br>Data Management Specialist<br>Santé Laboratories | 28 August 2023   3:36:05 PM PDT<br>_____<br>Date |

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