



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 01/18/2024

Analysis ID No. 240092  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20240026  
Page No. Page 1 of 2

| CUSTOMER INFORMATION                     | SAMPLE INFORMATION                               |
|------------------------------------------|--------------------------------------------------|
| <b>Client Name:</b>                      | <b>Submitted Sample Name:</b>                    |
| Viable Solutions LLC                     | N/A                                              |
| <b>Address:</b>                          | <b>Submitted Sample Lot:</b>                     |
| 105 E Plymouth St                        | 3240901-6                                        |
| <b>Phone Number:</b>                     | <b>Submitted Sample Description:</b>             |
| 208-318-8266                             | Tan Powder in Brown Mylar Bag; Stored at RM temp |
| <b>Contact Name / Email:</b>             | <b>Submitted Sample Product Type / Matrix:</b>   |
| Cory Alberts / coryalberts1995@gmail.com | 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                                 | 1.408 w/w%<br>14.077 mg/g | Result Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.326 w/w%<br>3.257 mg/g  | Result Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.186 w/w%<br>1.863 mg/g  | Result Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.438 w/w%<br>4.384 mg/g  | Result 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%              | Result Reported |
| Isorhynchophylline | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Result Reported |
| Corynoxine         | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | < 0.010 w/w%              | Result Reported |
| Total Alkaloids    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 2.358 w/w%<br>23.581 mg/g | Result 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 | 290 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     | < 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  | 1,018.2 ppb  | FAIL        |
| Mercury            | USP <232> <233><br>by ICP-MS | 5 ppb  | NMT 500 ppb    | 19.6 ppb     | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,500 ppb  | 457.6 ppb    | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 300 ppb    | 20.4 ppb     | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 50 ppb | NMT 20,000 ppb | 2,124.6 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> 240092<br><b>Receipt Date:</b> 01/10/2024/ 11:30 AM CST / A. Smith<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 01/10/2024 |

| 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              | 01/18/2024     | Initial Release    |

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

| REVIEWED AND APPROVED BY                                                                               |                                                      |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <div>DocuSigned by:<br/><br/>Yvonne Rivera<br/>Data Management Specialist<br/>Santé Laboratories</div> | <div>18 January 2024   3:28:12 PM PST<br/>Date</div> |

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