



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 02/20/2023

Analysis ID No. 230442  
TDA License No. 2020002  
ISO/IEC No. 1055838  
Purchase Order: 20230105  
Page No. Page 1 of 2

| CUSTOMER INFORMATION                         | SAMPLE INFORMATION                                         |
|----------------------------------------------|------------------------------------------------------------|
| <b>Company Name:</b>                         | <b>Submitted Sample Name:</b>                              |
| Viable Solutions, LLC                        | N/A                                                        |
| <b>Address:</b>                              | <b>Submitted Sample Lot:</b>                               |
| 60 6 <sup>th</sup> St North, Nampa, ID 83686 | 1230802-5                                                  |
| <b>Phone Number:</b>                         | <b>Submitted Sample Description:</b>                       |
| 208-318-8266                                 | Green Powder in Clear / Brown Resealable Bag; Stored at RT |
| <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                                 | 1.576 w/w%<br>15.757 mg/g | Results Reported |
| Paynantheine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.283 w/w%<br>2.830 mg/g  | Results Reported |
| Speciogynine       | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.237 w/w%<br>2.374 mg/g  | Results Reported |
| Speciociliatine    | UHPLC-DAD   | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only                                 | 0.273 w/w%<br>2.731 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                                 | 2.369 w/w%<br>23.691 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 | 50 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   | 415.2 ppb    | PASS        |
| Mercury            | USP <232> <233><br>by ICP-MS | 5 ppb  | NMT 500 ppb     | 15.9 ppb     | PASS        |
| Arsenic            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 1,500 ppb   | 205.7 ppb    | PASS        |
| Cadmium            | USP <232> <233><br>by ICP-MS | 10 ppb | NMT 300 ppb     | 26.6 ppb     | PASS        |
| Nickel             | USP <232> <233><br>by ICP-MS | 50 ppb | NMT 200,000 ppb | 3,833.0 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> 230442<br><b>Receipt Date:</b> 02/10/2023 / 09:40 AM CST / M. Husain<br><b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 02/13/2023 |

| 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              | 02/20/2023     | Initial Release    |

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

| REVIEWED AND APPROVED BY                                                                                                                                                                                                                                                     |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <div><div>DocuSigned by:</div><div><div>E49DDA845185484...</div></div></div> <div><div><b>Yvonne Rivera</b></div><div>Data Management Specialist</div><div>Santé Laboratories</div></div> | <div>20 February 2023   2:01:15 PM PST</div> <div>Date</div> |

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