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Santé LABORATORIES

# CERTIFICATE OF ANALYSIS

**STATUS**: RELEASED **REVISION**: 00
**DATE**: 01/20/2023

| | |
|---|---|
| **Analysis ID No.** | 230135 |
| **TDA License No.** | 2020002 |
| **ISO/IEC No.** | 1055838 |
| **Purchase Order:** | 20230032 |
| **Page No.** | Page 1 of 2 |

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Client Name:** | **Submitted Sample Name:** |
| Kat's Botanicals | Kratom Leaf Powder |
| **Address:** | **Submitted Sample Lot:** |
| 6300 N. Andrews Ave #297, Fort Lauderdale, FL 33309 | 276033GMDP |
| **Phone Number:** | **Submitted Sample Description:** |
| 877-301-9923 | Green Powder in White Mylar Packaging; Stored at RT |
| **Contact Name / Email:** | **Submitted Sample Product Type / Matrix:** |
| N/A / mike@katsbotanicals.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 | 1.662 w/w%<br>16.618 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.337 w/w%<br>3.370 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.270 w/w%<br>2.698 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.349 w/w%<br>3.488 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% | < 0.010 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 | 2.617 w/w%<br>26.174 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 | 1,070 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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# CERTIFICATE OF ANALYSIS

**STATUS:** RELEASED **REVISION:** 00
**DATE:** 01/20/2023



| HEAVY METALS ASSAY | | | | | |
|---|---|---|---|---|---|
| **Analysis** | **Test Method** | **LOQ** | **Specifications** | **Test Results** | **Pass / Fail** |
| Lead | USP <232> <233> by ICP-MS | 0.01 mcg/g | NMT 1.250 mcg/g | 0.561 mcg/g | PASS |
| Mercury | USP <232> <233> by ICP-MS | 0.005 mcg/g | NMT 0.200 mcg/g | 0.018 mcg/g | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 0.01 mcg/g | NMT 1.000 mcg/g | 0.279 mcg/g | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 0.01 mcg/g | NMT 0.400 mcg/g | 0.026 mcg/g | PASS |
| Nickel | USP <232> <233> by ICP-MS | 0.05 mcg/g | NMT 20.000 mcg/g | 2.814 mcg/g | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Santé Laboratories**<br>8201 East Riverside Drive, STE 650<br>Austin, Texas 78744 USA | **Santé Sample ID:** 230135<br>**Receipt Date:** 01/16/2023 / 09:15 AM CST / K. Cobbett<br>**Receipt Condition:** Good **Analysis Start Date:** 01/16/2023 |

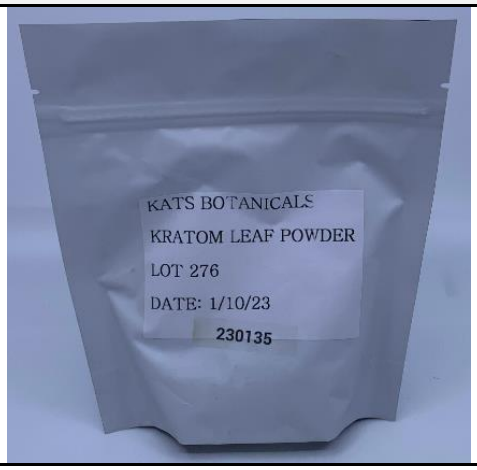
**ADDITIONAL REPORT NOTES**

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. **Heavy metal specifications according to limits provided by Customer. Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).**

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| VERSION HISTORY | | |
|---|---|---|
| **Version** | **Effective Date** | **Summary of Changes** |
| 00 | 01/20/2023 | Initial Release |

**PRODUCT SAMPLE / IMAGE**




**REVIEWED AND APPROVED BY**

DocuSigned by:
Yvonne Rivera
E49DDA845186484...

**Yvonne Rivera**
Data Management Specialist
Santé Laboratories

20 January 2023 | 12:04:13 PM PST
Date



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