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# CERTIFICATE OF ANALYSIS

**STATUS**: RELEASED **REVISION**: 00
**DATE**: 08/09/2021

**Analysis ID No.** 212614
**TDA License No.** 2020002
**ISO/IEC No.** 1055838
**Purchase Order:** 20210688
**Page No.** Page 1 of 2

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Company Name:** | **Submitted Sample Name:** |
| Kats Botanicals | Kratom leaf Powder |
| **Address:** | **Submitted Sample Lot:** |
| 6300 N. Andrews Avenue #297, Fort Launderdale, FL 33309 | 0001468 |
| **Phone Number:** | **Submitted Sample Description:** |
| 877-301-9923 | Powder in Plastic Bag with Twist Tie; Stored at Room Temp |
| **Contact Name / Email:** | **Submitted Sample Product Type / Matrix:** |
| 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 | 1.388 w/w%<br>13.876 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.268 w/w%<br>2.680 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.176 w/w%<br>1.755 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.375 w/w%<br>3.749 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% | < 0.01 w/w% | PASS |
| Mitraphylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | < 0.01 w/w% | Results Reported |
| Isorhynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.013 w/w%<br>0.130 mg/g | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 2.219 w/w%<br>22.191 mg/g | Results Reported |

**HEAVY METALS ASSAY**

| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / No Pass |
|---|---|---|---|---|---|
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1000 ppb | 524.2 ppb | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | 29.9 ppb | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1500 ppb | 316.4 ppb | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | 26.1 ppb | PASS |
| Nickel | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | 3,689.4 ppb | PASS |


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# CERTIFICATE OF ANALYSIS

**STATUS:** RELEASED **REVISION:** 00
**DATE:** 08/09/2021



| MICROBIOLOGICAL ASSAY | | | | | |
|---|---|---|---|---|---|
| **Analysis** | **Test Method** | **LOQ** | **Specifications** | **Test Results** | **Pass / Fail** |
| Total Aerobic Plate Count (TAPC) | Isolation Agar | 200 CFU/gm | NMT 10,000,000 CFU/gm | 232,000 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 100,000 CFU/gm | 22,500 CFU/gm | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 10,000 CFU/gm | 1,080 CFU/gm | 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 |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Santé Laboratories**<br>8201 East Riverside Drive, STE 650<br>Austin, Texas 78744 USA | **Santé Sample ID:** 212614<br>**Receipt Date:** 07/30/2021 / 10:32 AM CST / S. ORTEGA<br>**Receipt Condition:** Good **Analysis Start Date:** 07/30/2021 |

**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 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 | 08/09/2021 | Initial Release |

**PRODUCT SAMPLE / IMAGE**




**REVIEWED AND APPROVED BY**

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

**Brian Sloat, Ph.D.**
Chief Scientific Officer / Quality Manager
Santé Laboratories

8/9/2021
Date *DD-MM-YY*


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