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# CERTIFICATE OF ANALYSIS

**STATUS:** RELEASED **REVISION:** 00
**DATE:** 08/10/2022

**Analysis ID No.** 223252
**TDA License No.** 2020002
**ISO/IEC No.** 1055838
**Purchase Order:** 20220927


| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Company Name:** | **Submitted Sample Name:** |
| Kats Botanicals | Kratom Powder |
| **Address:** | **Submitted Sample Lot:** |
| 6300 N Andrews Avenue #297, For Lauderdale, FL 33309 | 0002161 |
| **Phone Number:** | **Submitted Sample Description:** |
| 877-301-9923 | Green Pwdr in Transparent Bag w/ Yellow Zip Tie; Stored @ RT |
| **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 | 1.260 w/w%<br>12.602 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.302 w/w%<br>3.022 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.194 w/w%<br>1.943 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>3.493 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 | 2.106 w/w%<br>21.061 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 | 1,055 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
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**Analysis ID No.** 223252
**TDA License No.** 2020002
**ISO/IEC No.** 1055838
**Purchase Order:** 20220927


**HEAVY METALS ASSAY**

| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
|---|---|---|---|---|---|
| Lead | USP <232> <233> by ICP-MS | 0.01 mcg/g | NMT 1.000 mcg/g | 0.547 mcg/g | PASS |
| Mercury | USP <232> <233> by ICP-MS | 0.005 mcg/g | NMT 0.500 mcg/g | 0.022 mcg/g | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 0.01 mcg/g | NMT 1.500 mcg/g | 0.144 mcg/g | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 0.01 mcg/g | NMT 0.300 mcg/g | 0.025 mcg/g | PASS |
| Nickel | USP <232> <233> by ICP-MS | 0.05 mcg/g | NMT 200.000 mcg/g | 2.001 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:** 223252<br>**Receipt Date:** 08/03/2022 / 9:59 AM CST / M Husain<br>**Receipt Condition:** Good **Analysis Start Date:** 08/03/2022 |

**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 | 08/10/2022 | Initial Release |

**PRODUCT SAMPLE / IMAGE**




**REVIEWED AND APPROVED BY**

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

10 August 2022 | 5:22:22 PM PDT *DD-MM-YY*

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

Date


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