DocuSign Envelope ID: DE7FCCD5-A87E-42A0-9716-56DD5305AD22

# CERTIFICATE OF ANALYSIS

**STATUS:** RELEASED **REVISION:** 00
**DATE:** 09/19/2021

**Analysis ID No.** 213253
**TDA License No.** 2020002
**ISO/IEC No.** 1055838
**Purchase Order:** 20210817
**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 Lauderdale, FL 33309 | 0001543 |
| **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 | 0.914 w/w%<br>9.142 mg/g | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.178 w/w%<br>1.780 mg/g | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.133 w/w%<br>1.331 mg/g | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.352 w/w%<br>3.521 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 | 0.010 w/w%<br>0.104 mg/g | Results Reported |
| Corynoxine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 0.012 w/w%<br>0.118 mg/g | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only | 1.600 w/w%<br>15.997 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 | 689.6 ppb | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | 20.0 ppb | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1500 ppb | 281.1 ppb | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | 27.1 ppb | PASS |
| Nickel | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | 2,211.1 ppb | PASS |


This report may not be reproduced, except in full, without the permission of Santé Laboratories, LLC.

DocuSign Envelope ID: DE7FCCD5-A87E-42A0-9716-56DD5305AD22

# CERTIFICATE OF ANALYSIS

**STATUS:** RELEASED **REVISION:** 00
**DATE:** 09/19/2021

**Analysis ID No.** 213253
**TDA License No.** 2020002
**ISO/IEC No.** 1055838
**Purchase Order:** 20210817
**Page No.** Page 2 of 2

| 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 | 14,200 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 100,000 CFU/gm | 2,800 CFU/gm | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 10,000 CFU/gm | 210 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:** 213253<br>**Receipt Date:** 09/10/2021 / 12:59 PM CST / M Cardona<br>**Receipt Condition:** Good **Analysis Start Date:** 09/13/2021 |

**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).**

©2020 Santé Laboratories, LLC – All Rights Reserved

| VERSION HISTORY | | |
|---|---|---|
| **Version** | **Effective Date** | **Summary of Changes** |
| 00 | 09/19/2021 | 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

19 September 2021 | 7:12:33 PM PDT
*DD-MM-YY*
Date


This report may not be reproduced, except in full, without the permission of Santé Laboratories, LLC.