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Santé LABORATORIES

# CERTIFICATE OF ANALYSIS

**STATUS:** RELEASED **REVISION:** 01
**DATE:** 06/27/2023

**Analysis ID No.** 231817
**TDA License No.** 2020002
**ISO/IEC No.** 1055838
**Purchase Order:** 20230456
**Page No.** Page 1 of 2

| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Company Name:** | **Submitted Sample Name:** |
| Kats Botanicals | 3.6g 50mg Kratom Island Punch |
| **Address:** | **Submitted Sample Lot:** |
| 619 Old Hickory Blvd, Old Hickory, TN 37138 | PG060123-37 |
| **Phone Number:** | **Submitted Sample Description:** |
| 877-301-9923 | Yellow Gummies in White Resealable Bag; Stored at RT |
| **Contact Name / Email:** | **Submitted Sample Product Type / Matrix:** |
| Not Provided | Kratom Extract / Edibles |

**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<br>mg/unit: Report Only* | 1.525 w/w%<br>15.246 mg/g<br>54.886 mg/unit | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>mg/unit: Report Only* | 0.161 w/w%<br>1.610 mg/g<br>5.797 mg/unit | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>mg/unit: Report Only* | 0.114 w/w%<br>1.138 mg/g<br>4.095 mg/unit | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>mg/unit: Report Only* | 0.013 w/w%<br>0.126 mg/g<br>0.453 mg/unit | Results Reported |
| 7-OH-Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>mg/unit: 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<br>mg/unit: Report Only* | < 0.010 w/w% | Results Reported |
| Isorhynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>mg/unit: Report Only* | < 0.010 w/w% | Results Reported |
| Corynoxine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only<br>mg/g: Report Only<br>mg/unit: 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<br>mg/unit: Report Only* | 1.812 w/w%<br>18.120 mg/g<br>65.231 mg/unit | 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 CFU/gm | 80 CFU/gm | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 1,000 CFU/gm | < LOQ | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 100 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:** 01
**DATE:** 06/27/2023



| HEAVY METALS ASSAY | | | | | |
|---|---|---|---|---|---|
| **Analysis** | **Test Method** | **LOQ** | **Specifications** | **Test Results** | **Pass / Fail** |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb | < LOQ | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | < LOQ | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb | < LOQ | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | < LOQ | PASS |
| Nickel | USP <232> <233> by ICP-MS | 50 ppb | NMT 200,000 ppb | < LOQ | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|---|---|
| **Santé Laboratories**<br>8201 East Riverside Drive, STE 650<br>Austin, Texas 78744 USA | **Santé Sample ID:** 231817<br>**Receipt Date:** 06/09/2023 / 03:00 PM CST / C. Ritchie<br>**Receipt Condition:** Good **Analysis Start Date:** 06/13/2023 |

## 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. **Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological limits according to specifications defined by AHPA for botanical extracts. * Unit Weight: 3.6 grams, this was provided by the customer.**

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| VERSION HISTORY | | |
|---|---|---|
| **Version** | **Effective Date** | **Summary of Changes** |
| 00 | 06/22/2023 | Initial Release |
| 01 | 06/27/2023 | Alkaloids Assay Results Updated with Customer's Unit Weight. |

## PRODUCT SAMPLE / IMAGE




## REVIEWED AND APPROVED BY

DocuSigned by:
Yvonne Rivera
E49DDA8451804B4...

**Yvonne Rivera**
Data Management Specialist
Santé Laboratories

27 June 2023 | 7:15:30 AM PDT
Date



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