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CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION:** 00
DATE: 05/24/2023

Analysis ID No. 231522
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20230389

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	**Submitted Sample Name:**
Kats Botanicals	Kratom Leaf Powder
Address:	**Submitted Sample Lot:**
619 Old Hickory Blvd, Old Hickory, TN 37138	394186GMDP
Phone Number:	**Submitted Sample Description:**
877-301-9923	Green Powder in White Resealable Bag; Stored at 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 mg/g: Report Only	1.404 w/w% 14.037 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.264 w/w% 2.643 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.232 w/w% 2.321 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.364 w/w% 3.644 mg/g	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only % of Total Alkaloids: NMT 2%	< 0.010 w/w%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.010 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.010 w/w%	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.024 w/w% 0.241 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.289 w/w% 22.887 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	80 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: 05/24/2023

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	0.496 mcg/g	PASS
Mercury	USP <232> <233> by ICP-MS	0.005 mcg/g	NMT 0.200 mcg/g	0.019 mcg/g	PASS
Arsenic	USP <232> <233> by ICP-MS	0.01 mcg/g	NMT 1.000 mcg/g	0.249 mcg/g	PASS
Cadmium	USP <232> <233> by ICP-MS	0.01 mcg/g	NMT 0.400 mcg/g	0.031 mcg/g	PASS
Nickel	USP <232> <233> by ICP-MS	0.05 mcg/g	NMT 20.000 mcg/g	2.203 mcg/g	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 231522 **Receipt Date:** 05/22/2023 / 09:30 am CST / K. Cobbett **Receipt Condition:** Good **Analysis Start Date:** 05/22/2023

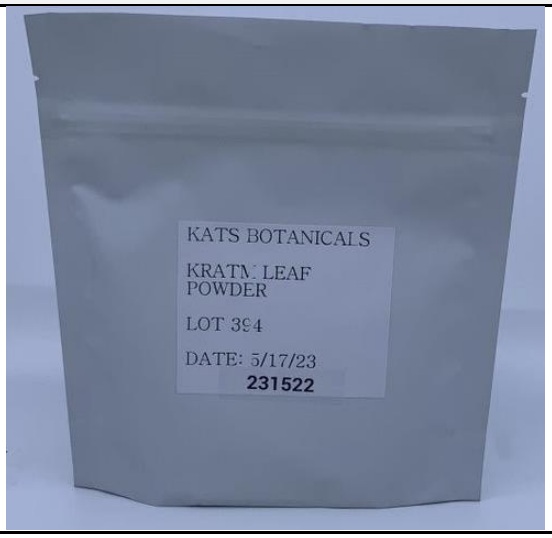
ADDITIONAL REPORT NOTES

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 the Customer. Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).**
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VERSION HISTORY

Version	Effective Date	Summary of Changes
00	05/24/2023	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Yvonne Rivera
E49DDA845186484...

Yvonne Rivera
Data Management Specialist
Santé Laboratories

24 May 2023 | 3:19:30 PM PDT
Date

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