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CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION**: 00
DATE: 06/11/2021

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	**Submitted Sample Name:**
Kats Botanicals	Kratom Leaf Powder
Address:	**Submitted Sample Lot:**
6300 N Andrews Ave #297; Fort Lauderdale, FL 33309	0001353
Phone Number:	**Submitted Sample Description:**
(877) 301-9923	Green Powder in Plastic Bag w/ Twist Tie; Stored at Room T
Contact Name / Email:	**Submitted Sample Product Type / Matrix:**
N/A	Kratom Plant Matter / Leaf Powder

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	1.329 w/w% 13.293 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.270 w/w% 2.695 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.148 w/w% 1.477 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.383 w/w% 3.834 mg/g	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only % Total Alkaloids: NMT 2%	< 0.01%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01%	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.130 w/w% 21.299 mg/g	Results Reported

HEAVY METALS

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1,000 ppb	253.4 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	21.0 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	17.8 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	245.3 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	10 ppb	NMT 200,000 ppb	1,230.4 ppb	PASS

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CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION**: 00
DATE: 06/11/2021

Analysis ID No. 211707
TDA License No. 2020002
ISO/IEC No. 1055838
Customer No. 20210500

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	2,500 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	1,233 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 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 211707 **Receipt Date:** 06/04/2021 / 08:00 AM CST / S. ORTEGA **Receipt Condition:** Good **Analysis Start Date:** 06/04/2021

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	06/11/2021	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

6/11/2021
DD-MM-YY

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

Date

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