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CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION**: 00
DATE: 07/07/2021

Analysis ID No. 212236
TDA License No. 2020002
ISO/IEC No. 1055838
Customer No. 20210602

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	0001426
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	1.105 w/w% 11.053 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.372 w/w% 3.715 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.193 w/w% 1.929 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.349 w/w% 3.495 mg/g	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only NMT 2% of Total Alkaloids	< 0.01 w/w%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.022 w/w% 0.222 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.041 w/w% 20.415 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	909.9 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	23.7 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	35.9 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	333.1 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	10 ppb	NMT 200,000 ppb	2,934.4 ppb	PASS

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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	14,000 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	80 CFU/gm	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

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 212235 **Receipt Date:** 07/02/2021 / 11:00 AM CST / S. ORTEGA **Receipt Condition:** Good **Analysis Start Date:** 07/02/2021

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	07/07/2021	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

7/7/2021
Date
DD-MM-YY

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

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