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CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION:** 00
DATE: 12/22/2022

Analysis ID No. 225498
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20221492

CUSTOMER INFORMATION	SAMPLE INFORMATION
Client Name:	**Submitted Sample Name:**
Kat's Botanicals	Kratom Leaf Powder
Address:	**Submitted Sample Lot:**
6300 N. Andrews Ave #297, Fort Lauderdale, FL 33309	243206WJKC
Phone Number:	**Submitted Sample Description:**
877-301-9923	Green Powder in White Mylar Packaging; Stored at RT
Contact Name / Email:	**Submitted Sample Product Type / Matrix:**
mike@katsbotanicals.com	Kratom 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	1.364 w/w% 13.642 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.298 w/w% 2.978 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.216 w/w% 2.163 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.279 w/w% 2.794 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	0.088 w/w% 0.884 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.246 w/w% 22.462 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	550 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

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Purchase Order: 20221492
Page No. Page 2 of 2

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	0.364 mcg/g	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 0.200 mcg/g	0.022 mcg/g	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1.000 mcg/g	0.452 mcg/g	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 0.400 mcg/g	0.033 mcg/g	PASS
Nickel	USP <232> <233> by ICP-MS	50 ppb	NMT 20.000 mcg/g	2.755 mcg/g	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 225498 **Receipt Date:** 12/19/2022 / 09:30 AM CST / M. Husain **Receipt Condition:** Good **Analysis Start Date:** 12/19/2022

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	12/22/2022	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Brian R. Sloat
89DC8DE7BF234E8...

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

22 December 2022 | 1:05:22 PM PST
DD-MM-YY
Date

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