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Santé LABORATORIES

CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION**: 00
DATE: 04/14/2022

Analysis ID No. 221549
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20220418
Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	**Submitted Sample Name:**
Kats Botanicals	Kratom Leaf Powder 1
Address:	**Submitted Sample Lot:**
619 Old Hickory Blvd, Old Hickory, TN 37138	100118WP
Phone Number:	**Submitted Sample Description:**
877-301-9923	Green Powder in Plastic Bag w/ Ziptie; Stored at Rm Temp
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	1.476 w/w% 14.758 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.284 w/w% 2.840 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.224 w/w% 2.237 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.510 w/w% 5.103 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%	< 0.010 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	0.011 w/w% 0.108 mg/g	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.038 w/w% 0.380 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.543 w/w% 25.426 mg/g	Results Reported

HEAVY METALS ASSAY

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1000 ppb	289.6 ppb	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 1500 ppb	189.7 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	16.9 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	50 ppb	NMT 200,000 ppb	2,107.7 ppb	PASS

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Page No. Page 2 of 2

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	3,340 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	40 CFU/gm	PASS
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	95 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:** 221549 **Receipt Date:** 04/04/2022 / 02:51 PM CST / M Cardona **Receipt Condition:** Good **Analysis Start Date:** 04/04/2022

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	04/14/2022	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

14 April 2022 | 5:43:01 PM PDT
DD-MM-YY

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

Date

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