



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 09/30/2020

Analysis ID No. 201439  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Customer No. 20201421  
 Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
<b>Company Name:</b>	<b>Submitted Sample Name:</b>
Steding & Sons Mercantile	SG200902
<b>Address:</b>	<b>Submitted Sample Lot:</b>
PO Box 200085; Austin, TX 78720 USA	Not Provided
<b>Phone Number:</b>	<b>Submitted Sample Description:</b>
512-704-3680	Kratom Powder In Zip Loc Bag; Arrived/Stored at Room T.
<b>Contact Name / Email:</b>	<b>Submitted Sample Product Type / Matrix:</b>
Jeremy Steding / jeremy@1836kratom.com	Kratom Plant Matter / Leaf Powder

KRATOM ALKALOIDS					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Mitaphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only % Total Alkaloids: NMT 2%	ND	PASS
Isorynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.049 w/w% 0.49 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.060 w/w% 0.60 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.070 w/w% 0.70 mg/g	Results Reported
Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.642 w/w% 6.42 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.317 w/w% 3.17 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	1.138 w/w% 11.38 mg/g	Results Reported

MICROBIOLOGICAL					
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	3,680 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	1,590 CFU/gm	PASS
Escherichia coli (E.coli)	Isolation Agar	1 CFU/25g	Absent	Absent	PASS
Salmonella	Isolation Agar	1 CFU/25g	Absent	Absent	PASS



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HEAVY METALS					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1,000 ppb	248.0 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	13.5 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	555.6 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	34.8 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	10 ppb	NMT 200,000 ppb	1,680.0 ppb	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
<b>Santé Laboratories</b> 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	<b>Santé Sample ID:</b> 201439 <b>Receipt Date:</b> 09/22/2020 / 11:20 AM / S. ORTEGA <b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 09/22/2020

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. Microbiological specifications follow APHA guidelines for botanical ingredients. ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	09/30/2020	Initial Release



REVIEWED AND APPROVED BY		
DocuSigned by: 	9/30/2020 Date	DD-MM-YY
<b>Brian Sloat, Ph.D.</b> Chief Scientific Officer / Quality Manager Santé Laboratories <small>51277B7C8FDA460...</small>		