ALKALOID SUMMARY - Per 1 g of tested powder

Kratom powder | Lot Green

Supplemental calculation from this COA; not issued or certified by the laboratory.

Total mitragynine	**15.373 mg**
Total 7-hydroxymitragynine	**< 0.100 mg**
Alkaloid ratio (mitragynine : 7-OH)	**> 153 : 1***
Mitragynine concentration	**15.373 mg/g**
7-OH mitragynine concentration	**< 0.100 mg/g**

< indicates the quantitation limit, not a measured amount or zero.
* Ratio is a conservative lower bound if 7-OH > 0; at zero, the ratio is undefined.
mg/g = w/w% x 10, or the lab-reported mg/g. No prepared-liquid volume is given; mg/mL is not calculated.

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CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** **REVISION**: 00
DATE: 02/07/2023

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	**Submitted Sample Name:**
Ketoret Bionaturals Inc.	Kratom Leaf Powder
Address:	**Submitted Sample Lot:**
1762 NE 205th Ter.; Miami, Florida 33179 USA	Green
Phone Number:	**Submitted Sample Description:**
954-655-8649	Green Powder In Black Mylar Pouch; Stored Rm Temp
Contact Email:	**Submitted Sample Product Type / Matrix:**
David Dweck / ddweck@ketoretbio.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	1.537 w/w% 15.373 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.293 w/w% 2.934 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.277 w/w% 2.773 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.335 w/w% 3.352 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 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	< 0.01 w/w%	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.067 w/w% 0.671 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.510 w/w% 25.103 mg/g	Results Reported

MICROBIOLOGICAL ASSAY

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Total Aerobic Plate Count (TAPC)	Isolation Agar	10 CFU/gm	NMT 10,000,000 CFU/gm	60,000 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	10 CFU/gm	NMT 100,000 CFU/gm	4,320 CFU/gm	PASS
Coliforms	Isolation Agar	10 CFU/gm	NMT 10,000 CFU/gm	2,380 CFU/gm	PASS
Esherichia coli (E. coli)	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS
Salmonella	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS

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STATUS: RELEASED **REVISION:** 00
DATE: 02/07/2023

HEAVY METALS

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1,000 ppb	538.1 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	18.9 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	225.6 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	34.0 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	10 ppb	NMT 200,000 ppb	5,037.7 ppb	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 323043 **Receipt Date:** 02/04/2023 / 12:35 PM CST / M CARDONA **Receipt Condition:** Good **Analysis Start Date:** 02/04/2023

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.
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VERSION HISTORY

Version	Effective Date	Summary of Changes
00	02/07/2023	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

07 February 2023 | 5:15:08 PM PDT
DD-MM-YY

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

Date

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