ALKALOID SUMMARY - Per 1 g of tested powder

Kratom powder | Lot WC38AW

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

Total mitragynine	**12.934 mg**
Total 7-hydroxymitragynine	**< 0.100 mg**
Alkaloid ratio (mitragynine : 7-OH)	**> 129 : 1***
Mitragynine concentration	**12.934 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.

DocuSign Envelope ID: 64846651-9687-4849-A6C4-BFA665A2721A

Santé LABORATORIES

CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION**: 00
DATE: 08/07/2023

Analysis ID No. 232305
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20230559
Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	**Submitted Sample Name:**
Ketoret Bionaturals Inc	RAW POWDER WHITE
Address:	**Submitted Sample Lot:**
1762 NE 205th Ter, Miami, FL 33179	WC38AW
Phone Number:	**Submitted Sample Description:**
800-723-2397	Green Powder in Resealable Bag; Stored at RT
Contact Name / Email:	**Submitted Sample Product Type / Matrix:**
David Dweck / ddweck@ketoretbio.com	Kratom 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	1.293 w/w% 12.934 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.233 w/w% 2.335 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.204 w/w% 2.040 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.440 w/w% 4.402 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	< 0.010 w/w%	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.171 w/w% 21.710 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	319,500 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	20,000 CFU/gm	PASS
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	397 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

This report may not be reproduced, except in full, without the permission of Santé Laboratories, LLC.

DocuSign Envelope ID: 64846651-9687-4849-A6C4-BFA665A2721A

Santé LABORATORIES

CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION**: 00
DATE: 08/07/2023

HEAVY METALS ASSAY

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1,000 ppb	560.4 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	26.0 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	645.3 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	29.9 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	50 ppb	NMT 20,000 ppb	2,977.0 ppb	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 232305 **Receipt Date:** 07/28/2023 / 11:30 AM CST / K. Cobbett **Receipt Condition:** Good **Analysis Start Date:** 07/31/2023

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. **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).**
©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY

Version	Effective Date	Summary of Changes
00	08/07/2023	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Yvonne Rivera
E49DDA845186484...

Yvonne Rivera
Data Management Specialist
Santé Laboratories

07 August 2023 | 2:56:04 PM PDT
Date

This report may not be reproduced, except in full, without the permission of Santé Laboratories, LLC.