



NOTES:

Great White - Lot 151909

First Test - 02/2020

2nd Test - 04/2022

These numbers are strong even after two years, but the biggest variance of all the tests we saw. This package was kept in very unstable conditions, along with the others.

This tested at 1.4%, which is a pretty decent test. The original tested at a strong 1.7%, but at a different lab. This kind of variance is very common, so it does appear that the product stayed the same, especially since other tests showed an increase.

This test showed almost a strong, solid alkaloid count and the microbiological levels decreased, most likely due to sealed packaging.

CERTIFICATE OF ANALYSISSTATUS: **RELEASED** REVISION: 01

DATE: 03/31/2022

Analysis ID No. 221234
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20220330
Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name: Steding & Sons Mercantile	Submitted Sample Name: Quantum Leaf Botanicals, Great White, 454g
Address: 13200 Pond Springs Rd. #E39, Austin, Texas 78729 USA	Submitted Sample Lot: 151909
Phone Number: 512-704-3680	Submitted Sample Description: Botanical Powder in Plastic Container; Stored at Room Temp
Contact Name / Email: Jeremy Steding / info@1836kratom.com	Submitted Sample Product Type / Matrix: Kratom Powder / 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	1.405 w/w% 14.055 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.304 w/w% 3.037 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.226 w/w% 2.260 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.306 w/w% 3.058 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	0.032 w/w% 0.324 mg/g	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.093 w/w% 0.926 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.366 w/w% 23.660 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	35,000 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	665 CFU/gm	PASS
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	850 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

CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 01

DATE: 03/31/2022

Analysis ID No. 221234
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20220330
Page No. Page 2 of 2

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 221234 Receipt Date: 03/17/2022 / 05:04 PM CST / M. Cardona Receipt Condition: Good Analysis Start Date: 03/17/2022

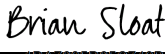
ADDITIONAL REPORT NOTES

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. **Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).** ©2021 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY

Version	Effective Date	Summary of Changes
00	03/29/2022	Initial Release
01	03/31/2022	Inclusion of microbiology results

REVIEWED AND APPROVED BY

DocuSigned by:  TDA7083D63C740B...	31 March 2022 5:48:08 PM PDT Date	DD-MM-YY
Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories		

PRODUCT SAMPLE / IMAGE



CERTIFICATE OF ANALYSISSTATUS: **RELEASED** REVISION: 01

DATE: 03/31/2022

Analysis ID No. 221234
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20220330
Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name: Steding & Sons Mercantile	Submitted Sample Name: Quantum Leaf Botanicals, Great White, 454g
Address: 13200 Pond Springs Rd. #E39, Austin, Texas 78729 USA	Submitted Sample Lot: 151909
Phone Number: 512-704-3680	Submitted Sample Description: Botanical Powder in Plastic Container; Stored at Room Temp
Contact Name / Email: Jeremy Steding / info@1836kratom.com	Submitted Sample Product Type / Matrix: Kratom Powder / 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	1.405 w/w% 14.055 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.304 w/w% 3.037 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.226 w/w% 2.260 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.306 w/w% 3.058 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	0.032 w/w% 0.324 mg/g	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.093 w/w% 0.926 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.366 w/w% 23.660 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	35,000 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	665 CFU/gm	PASS
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	850 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

CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 01

DATE: 03/31/2022

Analysis ID No. 221234
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20220330
Page No. Page 2 of 2

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 221234 Receipt Date: 03/17/2022 / 05:04 PM CST / M. Cardona Receipt Condition: Good Analysis Start Date: 03/17/2022

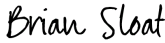
ADDITIONAL REPORT NOTES

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. **Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).** ©2021 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY

Version	Effective Date	Summary of Changes
00	03/29/2022	Initial Release
01	03/31/2022	Inclusion of microbiology results

REVIEWED AND APPROVED BY

DocuSigned by:  TDA7083D63C740B...	31 March 2022 5:48:08 PM PDT Date	DD-MM-YY
Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories		

PRODUCT SAMPLE / IMAGE

