Certificate of Analysis

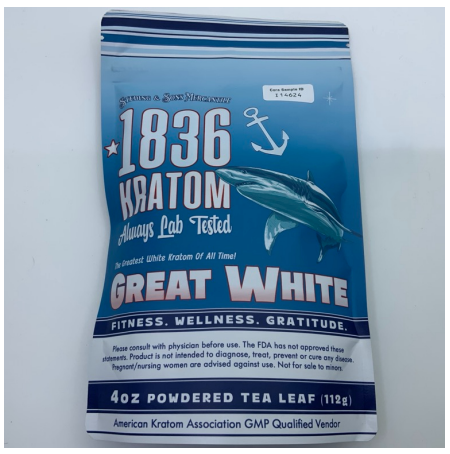
Customer Information

Client: Steding and Sons Mercantile
Attention: (737) 895-2303
Address: 1501 Panther Loop #7A
Pflugerville, TX 78660

Testing Facility

Lab: Cora Science, LLC
Address 8000 Anderson Square, STE 113
Austin, Texas 78757
Contact: info@corascience.com
(512) 856-5007

Sample Image(s)



Sample Information

Name: Great White
Lot Number: GW151927
Description: Finely ground plant material
Condition: Good
Job ID: ISO05304
Sample ID: I14624
Received: 21OCT2025
Completed: 25OCT2025
Issued: 28OCT2025

Test Results

Microbiological Examination **Method Code: T005** **Tested: 21OCT2025 | 1534**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 100,000 CFU/g	80	CFU/g	20 CFU/g	PASS
Total Yeast and Mold	NMT 100,000 CFU/g	<LOQ	CFU/g	20 CFU/g	PASS
Salmonella spp.	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS
Shiga-toxin producing E. coli	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS

Mitragyna Alkaloids (UHPLC-DAD) **Method Code: T102** **Tested: 25OCT2025 | 0134**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.44	w/w%	0.0053	N/A
7-Hydroxymitragynine	Report Results	0.00358	w/w%	0.0014	N/A
Mitragynine Pseudoindoxyl	Report Results	<LOQ	w/w%	0.0053	N/A
Mitraciliatine	Report Results	0.0533	w/w%	0.0053	N/A
Speciociliatine	Report Results	0.403	w/w%	0.0053	N/A
Speciogynine	Report Results	0.205	w/w%	0.0053	N/A
Paynantheine	Report Results	0.270	w/w%	0.0053	N/A
Coryantheidine	Report Results	0.0288	w/w%	0.0053	N/A
Corynoxine	Report Results	<LOQ	w/w%	0.0053	N/A
Isorhynchophylline	Report Results	0.0150	w/w%	0.0053	N/A
Mitraphylline	Report Results	<LOQ	w/w%	0.0053	N/A
Total Mitragyna Alkaloids	Report Results	2.42	w/w%	0.0053	N/A

Moisture Content **Method Code: T505** **Tested: 23OCT2025 | 1006**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Moisture	Report Results	5.67	%	0.1	N/A

7-Hydroxymitragynine Limit (0.04%) **Method Code: 813** **Tested: 25OCT2025 | 0134**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	38	ppm	15	PASS

Elemental Impurities (ICP-MS) **Method Code: T301** **Tested: 22OCT2025 | 1455**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	0.320	ug/g	0.006	PASS
Cadmium	NMT 0.82	0.034	ug/g	0.002	PASS
Mercury	NMT 0.40	<LOQ	ug/g	0.002	PASS
Lead	NMT 1.20	0.477	ug/g	0.002	PASS

Microbiological Examination **Method Code: T081** **Tested: 25OCT2025 | 2350**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Aspergillus flavus	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS
Aspergillus niger	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS
Aspergillus fumigatus	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS
Aspergillus terreus	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS

Additional Report Notes

T813 results are reported on a dry-weight basis (DWB). Reported values converted from T102/T102E results using the laboratory-measured moisture content by T505 for each sample:
DWB w/w% = (as-received w/w%) ÷ (1 − moisture%/100). T081 performed by a registered outsourcing facility

Revision History

rev 00 - Initial release.

Abbreviations

ID: identification, **N/A:** not applicable, **LOQ:** limit of quantitation, **CFU:** colony forming units, **w/w%:** weight by weight percent, **mg:** milligrams, **g:** grams, **ug:** micrograms, **mL:** milliliters, **ND:** not detected, **<LOQ:** below limit of quantitation, **NMT:** no more than, **NLT:** no less than, **UHPLC:** ultra-high performance liquid chromatography, **GC:** gas chromatography, **DAD:** diode array detection/detector, **MS:** mass spectroscopy/spectrometer, **ICP:** inductively coupled plasma, **ISO:** International Organization for Standardization, **USP:** United States Pharmacopeia

Authorization

This report has been authorized for release from Cora Science by:

Signature: Tyler West
Name: Tyler West
Position: Laboratory Director
Department: Management
Date: 28OCT2025