# Certificate of Analysis

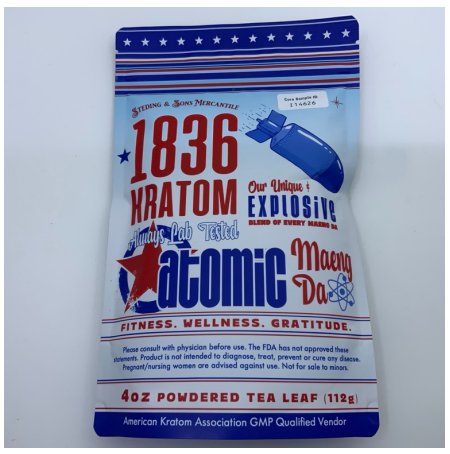
## Customer Information

**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:** Atomic Maeng Da
**Lot Number:** MD151927
**Description:** Finely ground plant material
**Condition:** Good
**Job ID:** ISO05304
**Sample ID:** I14626
**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 | 1,593 | 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 | 0243**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Mitragynine | Report Results | 1.44 | w/w% | 0.0054 | N/A |
| 7-Hydroxymitragynine | Report Results | 0.00296 | w/w% | 0.0014 | N/A |
| Mitragynine Pseudoindoxyl | Report Results | <LOQ | w/w% | 0.0054 | N/A |
| Mitraciliatine | Report Results | 0.0524 | w/w% | 0.0054 | N/A |
| Speciociliatine | Report Results | 0.377 | w/w% | 0.0054 | N/A |
| Speciogynine | Report Results | 0.214 | w/w% | 0.0054 | N/A |
| Paynantheine | Report Results | 0.277 | w/w% | 0.0054 | N/A |
| Coryantheidine | Report Results | 0.0315 | w/w% | 0.0054 | N/A |
| Corynoxine | Report Results | <LOQ | w/w% | 0.0054 | N/A |
| Isorhynchophylline | Report Results | <LOQ | w/w% | 0.0054 | N/A |
| Mitraphylline | Report Results | <LOQ | w/w% | 0.0054 | N/A |
| Total Mitragyna Alkaloids | Report Results | 2.39 | w/w% | 0.0054 | N/A |

**Moisture Content** **Method Code: T505** **Tested: 23OCT2025 | 1129**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Moisture | Report Results | 5.98 | % | 0.1 | N/A |

**7-Hydroxymitragynine Limit (0.04%)** **Method Code: 813** **Tested: 25OCT2025 | 0243**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| 7-Hydroxymitragynine | NMT 400 PPM | 31 | ppm | 15 | PASS |

**Elemental Impurities (ICP-MS)** **Method Code: T301** **Tested: 22OCT2025 | 1517**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Arsenic | NMT 2.00 | 0.101 | ug/g | 0.006 | PASS |
| Cadmium | NMT 0.82 | <LOQ | ug/g | 0.002 | PASS |
| Mercury | NMT 0.40 | <LOQ | ug/g | 0.002 | PASS |
| Lead | NMT 1.20 | 0.501 | 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