



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: Texas Red
Lot Number: TR151928
Description: Finely ground plant material
Condition: Good
Job ID: ISO06375
Sample ID: I17773
Received: 20FEB2026
Completed: 26FEB2026
Issued: 27FEB2026

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 26FEB2026 | 0024

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.05	w/w%	0.0055	N/A
7-Hydroxymitragynine	Report Results	0.0109	w/w%	0.00073	N/A
Paynantheine	Report Results	0.193	w/w%	0.0055	N/A
Speciogynine	Report Results	0.155	w/w%	0.0055	N/A
Speciociliatine	Report Results	0.299	w/w%	0.0055	N/A
Total Mitragyna Alkaloids	Report Results	1.70	w/w%	0.0055	N/A

Moisture Content

Method Code: T505

Tested: 25FEB2026 | 0930

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

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 24FEB2026 | 1416

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	0.232	ug/g	0.006	PASS
Cadmium	NMT 0.82	0.018	ug/g	0.002	PASS
Mercury	NMT 0.40	0.007	ug/g	0.002	PASS
Lead	NMT 1.20	0.429	ug/g	0.002	PASS

Microbiological Examination

Method Code: T005

Tested: 25FEB2026 | 1525

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000 CFU/g	560	CFU/g	20 CFU/g	PASS
Total Yeast and Mold	NMT 1,000 CFU/g	<LOQ	CFU/g	20 CFU/g	PASS
Salmonella spp.	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Shiga-toxin producing E. coli	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS

7-Hydroxymitragynine Limit (0.04%)

Method Code: 813

Tested: 26FEB2026 | 0024

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	116	ppm	8	PASS

7-Hydroxymitragynine Relative Alkaloid Ratio

Method Code: T102

Tested: 26FEB2026 | 0024

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	Report Results	0.638	% of Total Alkaloids	N/A	N/A

Additional Report Notes

T813 results are reported on a dry-weight basis (DWB). Reported values converted from T102 results using the laboratory-measured moisture content by T505 for each sample:

DWB w/w% = (as-received w/w%) ÷ (1 – moisture%/100).

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***Position:**

Laboratory Director

Department:

Management

Name:

Tyler West

Date:

27FEB2026