



Certificate of Analysis

Customer Information		Testing Facility	
Client:	Steding and Sons Mercantile	Lab:	Cora Science, LLC
Attention:	(737) 895-2303	Address	8000 Anderson Square, STE 113
Address:	1501 Panther Loop #7A		Austin, Texas 78757
	Pflugerville, TX 78660	Contact:	info@corascience.com
			(512) 856-5007

Sample Image(s)	Sample Information
	Name: Lot Number: Description: Condition: Job ID: Sample ID: Received: Completed: Issued: Texas Red TR151927 Finely ground plant material Good ISO05304 I14625 21OCT2025 25OCT2025 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	1,330	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 0209		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	1.16	w/w%	0.0052	N/A	
7-Hydroxymitragynine	Report Results	0.00356	w/w%	0.0014	N/A	
Mitragynine Pseudoindoxyl	Report Results	<LOQ	w/w%	0.0052	N/A	
Mitraciliatine	Report Results	0.0458	w/w%	0.0052	N/A	
Speciociliatine	Report Results	0.337	w/w%	0.0052	N/A	
Speciogynine	Report Results	0.174	w/w%	0.0052	N/A	
Paynantheine	Report Results	0.219	w/w%	0.0052	N/A	
Coryantheidine	Report Results	0.0260	w/w%	0.0052	N/A	
Corynoxine	Report Results	<LOQ	w/w%	0.0052	N/A	
Isorhynchophylline	Report Results	<LOQ	w/w%	0.0052	N/A	
Mitraphylline	Report Results	<LOQ	w/w%	0.0052	N/A	
Total Mitragyna Alkaloids	Report Results	1.96	w/w%	0.0052	N/A	

Moisture Content		Method Code: T505		Tested: 23OCT2025 1102		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Moisture	Report Results	6.08	%	0.1	N/A	

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7-Hydroxymitragynine Limit (0.04%)		Method Code: 813		Tested: 25OCT2025 0209	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	38	ppm	15	PASS

Elemental Impurities (ICP-MS)		Method Code: T301		Tested: 22OCT2025 1506	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	0.146	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	0.355	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

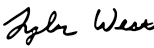
rev 00 - Initial release.

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