

# 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:** Lazy Luau  
**Lot Number:** SLL009  
**Description:** Liquid botanical extract  
**Condition:** Good  
**Job ID:** ISO02324  
**Sample ID:** I05482  
**Received:** 30JUL2024  
**Completed:** 02AUG2024  
**Issued:** 06AUG2024

## Test Results

### Kavalactones (UHPLC-DAD)

Method Code: T104

Tested: 01AUG2024 | 0944

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.407	w/w%	0.006	N/A
Dihydrokavain	Report Results	0.351	w/w%	0.006	N/A
Methysticin	Report Results	0.142	w/w%	0.006	N/A
Dihydromethysticin	Report Results	0.123	w/w%	0.006	N/A
Yangonin	Report Results	0.169	w/w%	0.006	N/A
Desmethoxyyangonin	Report Results	0.156	w/w%	0.006	N/A
Flavokawain A	Report Results	0.021	w/w%	0.006	N/A
Flavokawain B	Report Results	0.028	w/w%	0.006	N/A
Flavokawain C	Report Results	<LOQ	w/w%	0.006	N/A
Total Kavalactones	Report Results	1.35	w/w%	0.006	N/A

### Kavalactones (UHPLC-DAD)

Method Code: T104

Tested: 01AUG2024 | 0944

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	4.16	mg/mL	0.06	N/A
Dihydrokavain	Report Results	3.58	mg/mL	0.06	N/A
Methysticin	Report Results	1.45	mg/mL	0.06	N/A
Dihydromethysticin	Report Results	1.26	mg/mL	0.06	N/A
Yangonin	Report Results	1.73	mg/mL	0.06	N/A
Desmethoxyyangonin	Report Results	1.59	mg/mL	0.06	N/A
Flavokawain A	Report Results	0.215	mg/mL	0.06	N/A
Flavokawain B	Report Results	0.284	mg/mL	0.06	N/A
Flavokawain C	Report Results	<LOQ	mg/mL	0.06	N/A
Total Kavalactones	Report Results	13.8	mg/mL	0.06	N/A

### Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 02AUG2024 | 0029

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.66	mg/mL	0.09	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/mL	0.03	N/A
Paynantheine	Report Results	<LOQ	mg/mL	0.09	N/A
Speciogynine	Report Results	<LOQ	mg/mL	0.09	N/A
Speciociliatine	Report Results	<LOQ	mg/mL	0.09	N/A
Total Mitragyna Alkaloids	Report Results	1.66	mg/mL	0.09	N/A

**Mitragyna Alkaloids (UHPLC-DAD)**

Method Code: T102

Tested: 02AUG2024 | 0029

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.162	w/w%	0.009	N/A
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.002	N/A
Paynantheine	Report Results	<LOQ	w/w%	0.009	N/A
Speciogynine	Report Results	<LOQ	w/w%	0.009	N/A
Speciociliatine	Report Results	<LOQ	w/w%	0.009	N/A
Total Mitragyna Alkaloids	Report Results	0.162	w/w%	0.009	N/A

**Elemental Impurities (ICP-MS)**

Method Code: T301

Tested: 01AUG1924 | 1753

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 1.5	<LOQ	ug/g	0.0060	PASS
Cadmium	NMT 0.5	<LOQ	ug/g	0.0020	PASS
Lead	NMT 0.5	0.0124	ug/g	0.0020	PASS
Mercury	NMT 0.2	<LOQ	ug/g	0.0020	PASS

**Microbiological Examination**

Method Code: T005

Tested: 31JUL2024 | 1608

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000,000 CFU/gram	Not Detected	CFU/gram	10 CFU/gram	PASS
Total Yeast & Mold	100,000 CFU/gram	Not Detected	CFU/gram	10 CFU/gram	PASS
Total Coliforms	10,000 CFU/gram	Not Detected	CFU/gram	10 CFU/gram	PASS
Escherichia coli	Not Detected in 10 grams	Not Detected	N/A	1 CFU/10 grams	PASS
Salmonella	Not Detected in 25 grams	Not Detected	N/A	1 CFU/25 grams	PASS

## Additional Report Notes

T102 and T104 result, LOQ and unit converted from w/w% to mg/mL using a laboratory measured density of 1.021 g/mL.

## 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

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

<b>Signature:</b>	<i>Tyler West</i>	<b>Position:</b>	Laboratory Director
<b>Name:</b>	Tyler West	<b>Department:</b>	Management
		<b>Date:</b>	06AUG2024