



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: Ice Cold Lazy Lemonade
Lot Number: SSLM0005
Description: Ready-to-drink botanical infused beverage
Condition: Good
Job ID: ISO04429
Sample ID: I12031
Received: 11JUL2025
Completed: 18JUL2025
Issued: 18JUL2025

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 17JUL2025 | 0617

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	50.5	mg/unit	0.14	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/unit	0.14	N/A
Paynantheine	Report Results	1.29	mg/unit	0.14	N/A
Speciogynine	Report Results	1.04	mg/unit	0.14	N/A
Speciociliatine	Report Results	<LOQ	mg/unit	0.14	N/A
Total Mitragyna Alkaloids	Report Results	52.8	mg/unit	0.14	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 17JUL2025 | 0617

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.0141	w/w%	0.00004	N/A
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.00004	N/A
Paynantheine	Report Results	0.000359	w/w%	0.00004	N/A
Speciogynine	Report Results	0.000290	w/w%	0.00004	N/A
Speciociliatine	Report Results	<LOQ	w/w%	0.00004	N/A
Total Mitragyna Alkaloids	Report Results	0.0147	w/w%	0.00004	N/A

Kavalactones (UHPLC-DAD)

Method Code: T104

Tested: 18JUL2025 | 1024

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	83.8	mg/unit	0.54	N/A
Dihydrokavain	Report Results	80.4	mg/unit	0.54	N/A
Methysticin	Report Results	23.7	mg/unit	0.54	N/A
Dihydromethysticin	Report Results	25.8	mg/unit	0.54	N/A
Yanгонin	Report Results	28.8	mg/unit	0.54	N/A

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Desmethoxyyangonin	Report Results	31.2	mg/unit	0.54	N/A
Flavokawain A	Report Results	3.02	mg/unit	0.48	N/A
Flavokawain B	Report Results	4.44	mg/unit	0.48	N/A
Flavokawain C	Report Results	<LOQ	mg/unit	0.48	N/A
Total Kavalactones	Report Results	274	mg/unit	0.54	N/A

Kavalactones (UHPLC-DAD)		Method Code: T104		Tested: 18JUL2025 1024	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.0234	w/w%	0.00015	N/A
Dihydrokavain	Report Results	0.0224	w/w%	0.00015	N/A
Methysticin	Report Results	0.00661	w/w%	0.00015	N/A
Dihydromethysticin	Report Results	0.00719	w/w%	0.00015	N/A
Yangonin	Report Results	0.00804	w/w%	0.00015	N/A
Desmethoxyyangonin	Report Results	0.00871	w/w%	0.00015	N/A
Flavokawain A	Report Results	0.000842	w/w%	0.00013	N/A
Flavokawain B	Report Results	0.00124	w/w%	0.00013	N/A
Flavokawain C	Report Results	<LOQ	w/w%	0.00013	N/A
Total Kavalactones	Report Results	0.0764	w/w%	0.00015	N/A

Elemental Impurities (ICP-MS)		Method Code: T301		Tested: 16JUL2025 1558	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	<LOQ	ug/g	0.006	PASS
Cadmium	NMT 0.82	0.010	ug/g	0.002	PASS
Mercury	NMT 0.40	<LOQ	ug/g	0.002	PASS
Lead	NMT 1.20	0.005	ug/g	0.002	PASS

Microbiological Examination		Method Code: T005		Tested: 15JUL2025 1541	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000,000 CFU/g	580	CFU/g	10 CFU/g	PASS
Total Yeast and Mold	NMT 100,000 CFU/g	830	CFU/g	10 CFU/g	PASS
Total Coliforms	NMT 10,000 CFU/g	670	CFU/g	10 CFU/g	PASS
Escherichia coli	Not Detected in 10 g	Not Detected	N/A	1 CFU/10g	PASS
Salmonella spp.	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS

Additional Report Notes

T102 and T104 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.009 g/mL and package specified fill volume of 355.0 mL.

Revision History

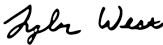
rev 00 - Initial release.

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

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

Signature:		Position:	Laboratory Director
Name:	Tyler West	Department:	Management
		Date:	18JUL2025