



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:	Lazy Lemonade
	Lot Number:	SSLM0105
	Description:	Ready-to-drink beverage
	Condition:	Good
	Job ID:	ISO07214
	Sample ID:	I20203
	Received:	28MAY2026
	Completed:	03JUN2026
	Issued:	05JUN2026

Test Results

Mitragyna Alkaloids (UHPLC-DAD)		Method Code: T102		Tested: 02JUN2026 1013		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	49.6	mg/unit	0.072	N/A	
7-Hydroxymitragynine	Report Results	0.810	mg/unit	0.072	N/A	
Paynantheine	Report Results	0.475	mg/unit	0.072	N/A	
Speciogynine	Report Results	0.235	mg/unit	0.072	N/A	
Speciociliatine	Report Results	<LOQ	mg/unit	0.072	N/A	
Total Mitragyna Alkaloids	Report Results	51.1	mg/unit	0.072	N/A	

Mitragyna Alkaloids (UHPLC-DAD)		Method Code: T102		Tested: 02JUN2026 1013		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	0.0138	w/w%	0.000020	N/A	
7-Hydroxymitragynine	Report Results	0.000225	w/w%	0.000020	N/A	
Paynantheine	Report Results	0.000132	w/w%	0.000020	N/A	
Speciogynine	Report Results	0.000065	w/w%	0.000020	N/A	
Speciociliatine	Report Results	<LOQ	w/w%	0.000020	N/A	
Total Mitragyna Alkaloids	Report Results	0.0142	w/w%	0.000020	N/A	

Loss on Drying		Method Code: T505		Tested: 01JUN2026 2220		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Loss on Drying	Report Results	97.4	%	0.1	N/A	

7-Hydroxymitragynine Limit (0.04%)		Method Code: 813		Tested: 02JUN2026 1013		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
7-Hydroxymitragynine	NMT 400 PPM	87	ppm	8	PASS	

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Elemental Impurities (ICP-MS)		Method Code: T301		Tested: 03JUN2026 1206	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	<LOQ	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	<LOQ	ug/g	0.002	PASS

Microbial Examination		Method Code: T005		Tested: 01JUN2026 0830	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Yeast and Mold	NMT 1,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Coliforms	NMT 100 CFU/g	<LOQ	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 10 g	Not Detected	N/A	1 CFU/10g	PASS

Kavalactones (UHPLC-DAD)		Method Code: T104		Tested: 03JUN2026 1244	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	48.0	mg/unit	0.29	N/A
Dihydrokavain	Report Results	110	mg/unit	0.29	N/A
Methysticin	Report Results	33.8	mg/unit	0.29	N/A
Dihydromethysticin	Report Results	54.2	mg/unit	0.29	N/A
Yangonin	Report Results	28.6	mg/unit	0.29	N/A
Desmethoxyyangonin	Report Results	35.1	mg/unit	0.29	N/A
Flavokawain A	Report Results	3.80	mg/unit	0.29	N/A
Flavokawain B	Report Results	6.41	mg/unit	0.29	N/A
Flavokawain C	Report Results	<LOQ	mg/unit	0.29	N/A
Total Kavalactones	Report Results	310	mg/unit	0.29	N/A

Kavalactones (UHPLC-DAD)		Method Code: T104		Tested: 03JUN2026 1244	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.0133	w/w%	0.00008	N/A
Dihydrokavain	Report Results	0.0305	w/w%	0.00008	N/A
Methysticin	Report Results	0.00938	w/w%	0.00008	N/A
Dihydromethysticin	Report Results	0.0150	w/w%	0.00008	N/A
Yangonin	Report Results	0.00794	w/w%	0.00008	N/A
Desmethoxyyangonin	Report Results	0.00974	w/w%	0.00008	N/A
Flavokawain A	Report Results	0.00105	w/w%	0.00008	N/A
Flavokawain B	Report Results	0.00178	w/w%	0.00008	N/A
Flavokawain C	Report Results	<LOQ	w/w%	0.00008	N/A
Total Kavalactones	Report Results	0.0859	w/w%	0.00008	N/A

Unit Weight Analysis (Gravimetric)		Method Code: T503		Tested: 01JUN2026 1711	
PARAMETER	SPECIFICATION	RESULT	UNIT	RANGE	NOTES
Density	Report Results	1.016	g/mL	0.5-1.5	N/A

Additional Report Notes

T102 and T104 results, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density and package specified fill volume. T813 results are reported on a dry-weight basis (DWB). Reported values converted from T102 results using the laboratory-measured loss on drying by T505 for each sample:
DWB w/w% = (as-received w/w%) ÷ (1 – moisture%/100).

Revision History

Report ID: de91e762-0093-4e59-bd4a-4b458654e597
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:	05JUN2026