

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: SSSL006
Description: Liquid botanical extract
Condition: Good
Job ID: ISO01766
Sample ID: I03743
Received: 22FEB2024
Completed: 25FEB2024
Issued: 27FEB2024

Test Results

Kavalactones (UHPLC-DAD)

Method Code: T104

Tested: 24FEB2024 | 0235

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.329	w/w%	0.006	N/A
Dihydrokavain	Report Results	0.322	w/w%	0.006	N/A
Methysticin	Report Results	0.119	w/w%	0.006	N/A
Dihydromethysticin	Report Results	0.121	w/w%	0.006	N/A
Yangonin	Report Results	0.118	w/w%	0.006	N/A
Desmethoxyyangonin	Report Results	0.128	w/w%	0.006	N/A
Flavokawain A	Report Results	<LOQ	w/w%	0.006	N/A
Flavokawain B	Report Results	<LOQ	w/w%	0.006	N/A
Flavokawain C	Report Results	<LOQ	w/w%	0.006	N/A
Total Kavalactones	Report Results	1.14	w/w%	0.006	N/A

Kavalactones (UHPLC-DAD)

Method Code: T104

Tested: 24FEB2024 | 0235

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	3.36	mg/mL	0.06	N/A
Dihydrokavain	Report Results	3.29	mg/mL	0.06	N/A
Methysticin	Report Results	1.22	mg/mL	0.06	N/A
Dihydromethysticin	Report Results	1.24	mg/mL	0.06	N/A
Yangonin	Report Results	1.21	mg/mL	0.06	N/A
Desmethoxyyangonin	Report Results	1.31	mg/mL	0.06	N/A
Flavokawain A	Report Results	<LOQ	mg/mL	0.06	N/A
Flavokawain B	Report Results	<LOQ	mg/mL	0.06	N/A
Flavokawain C	Report Results	<LOQ	mg/mL	0.06	N/A
Total Kavalactones	Report Results	11.6	mg/mL	0.06	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 24FEB2024 | 1035

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.26	mg/mL	0.09	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/mL	0.02	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	1.26	mg/mL	0.09	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 24FEB2024 | 1035

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.123	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	0.123	w/w%	0.009	N/A

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 25FEB2024 | 1856

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 1.5	<LOQ	ug/g	0.050	PASS
Cadmium	NMT 0.5	<LOQ	ug/g	0.0099	PASS
Lead	NMT 0.5	0.029	ug/g	0.0099	PASS
Mercury	NMT 3.0	<LOQ	ug/g	0.0099	PASS

Microbiological Examination

Method Code: T005

Tested: 22FEB2024 | 1436

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. T301 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

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Authorization

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

Signature:	<i>Tyler West</i>	Position:	Laboratory Director
Name:	Tyler West	Department:	Management
		Date:	27FEB2024