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: SSLL009
Description: Liquid botanical extract
Condition: Good
Job ID: ISO02076
Sample ID: I04728
Received: 23MAY2024
Completed: 26MAY2024
Issued: 30MAY2024

Test Results

Kavalactones (UHPLC-DAD) **Method Code: T104** **Tested: 24MAY2024 | 2053**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.275	w/w%	0.006	N/A
Dihydrokavain	Report Results	0.532	w/w%	0.006	N/A
Methysticn	Report Results	0.108	w/w%	0.006	N/A
Dihydromethysticin	Report Results	0.116	w/w%	0.006	N/A
Yangonin	Report Results	0.120	w/w%	0.006	N/A
Desmethoxyyangonin	Report Results	0.172	w/w%	0.006	N/A
Flavokawain A	Report Results	0.019	w/w%	0.006	N/A
Flavokawain B	Report Results	0.024	w/w%	0.006	N/A
Flavokawain C	Report Results	<LOQ	w/w%	0.006	N/A
Total Kavalactones	Report Results	1.32	w/w%	0.006	N/A

Kavalactones (UHPLC-DAD) **Method Code: T104** **Tested: 24MAY2024 | 2053**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	2.81	mg/mL	0.06	N/A
Dihydrokavain	Report Results	5.44	mg/mL	0.06	N/A
Methysticn	Report Results	1.10	mg/mL	0.06	N/A
Dihydromethysticin	Report Results	1.19	mg/mL	0.06	N/A
Yangonin	Report Results	1.22	mg/mL	0.06	N/A
Desmethoxyyangonin	Report Results	1.75	mg/mL	0.06	N/A
Flavokawain A	Report Results	0.197	mg/mL	0.06	N/A
Flavokawain B	Report Results	0.246	mg/mL	0.06	N/A
Flavokawain C	Report Results	<LOQ	mg/mL	0.06	N/A
Total Kavalactones	Report Results	13.5	mg/mL	0.06	N/A

Mitragyna Alkaloids (UHPLC-DAD) **Method Code: T102** **Tested: 25MAY2024 | 1551**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.74	mg/mL	0.09	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/mL	0.09	N/A
Paynantheine	Report Results	0.102	mg/mL	0.09	N/A
Speciogynine	Report Results	<LOQ	mg/mL	0.09	N/A
Speciocilatine	Report Results	<LOQ	mg/mL	0.09	N/A
Total Mitragyna Alkaloids	Report Results	1.84	mg/mL	0.09	N/A

Mitragyna Alkaloids (UHPLC-DAD) **Method Code: T102** **Tested: 25MAY2024 | 1551**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.170	w/w%	0.009	N/A
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.009	N/A
Paynantheine	Report Results	0.010	w/w%	0.009	N/A
Speciogynine	Report Results	<LOQ	w/w%	0.009	N/A
Speciocilatine	Report Results	<LOQ	w/w%	0.009	N/A
Total Mitragyna Alkaloids	Report Results	0.180	w/w%	0.009	N/A

Elemental Impurities (ICP-MS) **Method Code: T301** **Tested: 25MAY2024 | 1232**

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	0.012	ug/g	0.0020	PASS
Mercury	NMT 3.0	<LOQ	ug/g	0.0020	PASS

Microbiological Examination **Method Code: T005** **Tested: 24MAY2024 | 1138**

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 1.022 g/mL.

Revision History

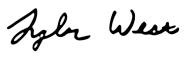
rev 00 - Initial release.

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

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

Signature: 

Name: Tyler West

Position: Laboratory Director

Department: Management

Date: 30MAY2024