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: Athena's Elixir
Lot Number: SSAE001

Description: Liquid botanical extract

Condition: Good

Job ID: ISO01700

Sample ID: I03521

Received: 01FEB2024

Completed: 04FEB2024

Issued: 05FEB2024

Test Results

Method Code: T104 Tested: 02FEB2024 | 2107

PARAMETER SPECIFICATION RESULT UNIT LOQ NOTES

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.308	w/w%	0.006	N/A
Dihydrokavain	Report Results	0.282	w/w%	0.006	N/A
Methysticin	Report Results	0.108	w/w%	0.006	N/A
Dihydromethysticin	Report Results	0.107	w/w%	0.006	N/A
Yangonin	Report Results	0.108	w/w%	0.006	N/A
Desmethoxyyangonin	Report Results	0.115	w/w%	0.006	N/A
Flavokawain A	Report Results	0.015	w/w%	0.006	N/A
Flavokawain B	Report Results	0.028	w/w%	0.006	N/A
Flavokawain C	Report Results	<loq< td=""><td>w/w%</td><td>0.006</td><td>N/A</td></loq<>	w/w%	0.006	N/A
Total Kavalactones	Report Results	1.03	w/w%	0.006	N/A

Kavalactones (UHPLC-DAD) Method Code: T104 Tested: 02FEB2024 | 2107

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	3.18	mg/mL	0.06	N/A
Dihydrokavain	Report Results	2.90	mg/mL	0.06	N/A
Methysticin	Report Results	1.11	mg/mL	0.06	N/A
Dihydromethysticin	Report Results	1.10	mg/mL	0.06	N/A
Yangonin	Report Results	1.11	mg/mL	0.06	N/A
Desmethoxyyangonin	Report Results	1.18	mg/mL	0.06	N/A
Flavokawain A	Report Results	0.154	mg/mL	0.06	N/A
Flavokawain B	Report Results	0.286	mg/mL	0.06	N/A
Flavokawain C	Report Results	<loq< td=""><td>mg/mL</td><td>0.06</td><td>N/A</td></loq<>	mg/mL	0.06	N/A
Total Kavalactones	Report Results	10.6	mg/mL	0.06	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 03FEB2024 | 0244

Work Order ID: ISO01700 - Sample Id: I03521 - Received Date: 01FEB2024 - Issued Date: 05FEB2024 - Page: 2

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.27	mg/mL	0.09	N/A
7-Hydroxymitragynine	Report Results	<loq< td=""><td>mg/mL</td><td>0.02</td><td>N/A</td></loq<>	mg/mL	0.02	N/A
Paynantheine	Report Results	0.243	mg/mL	0.09	N/A
Speciogynine	Report Results	0.166	mg/mL	0.09	N/A
Speciociliatine	Report Results	0.288	mg/mL	0.09	N/A
Total Mitragyna Alkaloids	Report Results	1.97	mg/mL	0.09	N/A

Mitragyna Alkaloids (UHPLC-DAD)	Method Code: T102	Tested: 03FEB2024 0244
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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.124	w/w%	0.009	N/A
7-Hydroxymitragynine	Report Results	<loq< td=""><td>w/w%</td><td>0.002</td><td>N/A</td></loq<>	w/w%	0.002	N/A
Paynantheine	Report Results	0.024	w/w%	0.009	N/A
Speciogynine	Report Results	0.016	w/w%	0.009	N/A
Speciociliatine	Report Results	0.028	w/w%	0.009	N/A
Total Mitragyna Alkaloids	Report Results	0.191	w/w%	0.009	N/A

Elemental Impurities (ICP-MS) Method Code: T301 Tested: 04FEB2024 | 1453

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 1.5	0.049	ug/g	0.048	PASS
Cadmium	NMT 0.5	<loq< td=""><td>ug/g</td><td>0.0095</td><td>PASS</td></loq<>	ug/g	0.0095	PASS
Lead	NMT 0.5	0.026	ug/g	0.0095	PASS
Mercury	NMT 3.0	<loq< td=""><td>ug/g</td><td>0.0095</td><td>PASS</td></loq<>	ug/g	0.0095	PASS

Microbiological Examination Method Code: T005 Tested: 02FEB2024 | 1403

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 1.030 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

Authorization

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

Signature: Agla West Position: Laboratory Director

Name: Tyler West Department: Management 05FEB2024