

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: SSLL00101

Description: Ready-to-drink botanical infused beverage

Condition: Good

Job ID: ISO05362

Sample ID: I14824

Received: 270CT2025

Completed: 310CT2025

Issued: 03NOV2025

Test Results

Mitragyna Alkaloids (UHPLC-DAD)	Method Code: T102			Tested: 310CT2025 0226		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	44.4	mg/unit	0.0025	N/A	
7-Hydroxymitragynine	Report Results	0.187	mg/unit	0.0025	N/A	
Paynantheine	Report Results	0.448	mg/unit	0.0025	N/A	
Speciogynine	Report Results	0.219	mg/unit	0.0025	N/A	
Speciociliatine	Report Results	<loq< td=""><td>mg/unit</td><td>0.0025</td><td>N/A</td></loq<>	mg/unit	0.0025	N/A	
Total Mitragyna Alkaloids	Report Results	45.3	mg/unit	0.0025	N/A	

Mitragyna Alkaloids (UHPLC-DAD)	Method Code: T102			Tested: 310CT2025 0226		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	0.145	w/w%	0.0000080	N/A	
7-Hydroxymitragynine	Report Results	0.000608	w/w%	0.0000080	N/A	
Paynantheine	Report Results	0.00146	w/w%	0.0000080	N/A	
Speciogynine	Report Results	0.000714	w/w%	0.0000080	N/A	
Speciociliatine	Report Results	<loq< th=""><th>w/w%</th><th>0.0000080</th><th>N/A</th></loq<>	w/w%	0.0000080	N/A	
Total Mitragyna Alkaloids	Report Results	0.148	w/w%	0.0000080	N/A	

Elemental Impurities (ICP-MS)	Method Code: T301			Tested: 300CT2025 123		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Arsenic	NMT 2.00	0.014	ug/g	0.006	PASS	
Cadmium	NMT 0.82	0.033	ug/g	0.002	PASS	
Mercury	NMT 0.40	<loq< td=""><td>ug/g</td><td>0.002</td><td>PASS</td></loq<>	ug/g	0.002	PASS	
Lead	NMT 1.20	0.008	ug/g	0.002	PASS	

Work Order: ISO05362 | Sample: I14824 Received: 270CT2025 | Issued: 03NOV2025 Revision: 00 | Page 2

Residual Solvents: Class I (GC-MS) Method Code: T201 Tested: 30OCT2025 | 1120

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
1,1-Dichloroethene	NMT 8	<loq< td=""><td>ug/g</td><td>0.40</td><td>PASS</td></loq<>	ug/g	0.40	PASS
1,1,1-Trichloroethane	NMT 1500	<loq< td=""><td>ug/g</td><td>75</td><td>PASS</td></loq<>	ug/g	75	PASS
Tetrachloromethane	NMT 4	<loq< td=""><td>ug/g</td><td>0.20</td><td>PASS</td></loq<>	ug/g	0.20	PASS
Benzene	NMT 2	<loq< td=""><td>ug/g</td><td>0.10</td><td>PASS</td></loq<>	ug/g	0.10	PASS
1,2-Dichloroethane	NMT 5	<loq< td=""><td>ug/g</td><td>0.25</td><td>PASS</td></loq<>	ug/g	0.25	PASS

Method Code: T201		Tested: 300CT2025 11		
SPECIFICATION	RESULT	UNIT	LOQ	NOTES
NMT 3000	<loq< td=""><td>ug/g</td><td>75</td><td>PASS</td></loq<>	ug/g	75	PASS
NMT 410	<loq< td=""><td>ug/g</td><td>41</td><td>PASS</td></loq<>	ug/g	41	PASS
NMT 600	<loq< td=""><td>ug/g</td><td>15</td><td>PASS</td></loq<>	ug/g	15	PASS
NMT 1870	<loq< td=""><td>ug/g</td><td>47</td><td>PASS</td></loq<>	ug/g	47	PASS
NMT 1870	<loq< td=""><td>ug/g</td><td>47</td><td>PASS</td></loq<>	ug/g	47	PASS
NMT 720	<loq< td=""><td>ug/g</td><td>18</td><td>PASS</td></loq<>	ug/g	18	PASS
NMT 3880	<loq< td=""><td>ug/g</td><td>97</td><td>PASS</td></loq<>	ug/g	97	PASS
NMT 1180	<loq< td=""><td>ug/g</td><td>30</td><td>PASS</td></loq<>	ug/g	30	PASS
NMT 380	<loq< td=""><td>ug/g</td><td>38</td><td>PASS</td></loq<>	ug/g	38	PASS
NMT 890	<loq< td=""><td>ug/g</td><td>22</td><td>PASS</td></loq<>	ug/g	22	PASS
NMT 360	<loq< td=""><td>ug/g</td><td>9.0</td><td>PASS</td></loq<>	ug/g	9.0	PASS
NMT 2170	<loq< td=""><td>ug/g</td><td>54</td><td>PASS</td></loq<>	ug/g	54	PASS
NMT 2170	<loq< td=""><td>ug/g</td><td>54</td><td>PASS</td></loq<>	ug/g	54	PASS
NMT 2170	<loq< td=""><td>ug/g</td><td>54</td><td>PASS</td></loq<>	ug/g	54	PASS
NMT 70	<loq< td=""><td>ug/g</td><td>1.8</td><td>PASS</td></loq<>	ug/g	1.8	PASS
NMT 290	<loq< td=""><td>ug/g</td><td>7.3</td><td>PASS</td></loq<>	ug/g	7.3	PASS
NMT 50	<loq< td=""><td>ug/g</td><td>1.3</td><td>PASS</td></loq<>	ug/g	1.3	PASS
NMT 60	<loq< td=""><td>ug/g</td><td>1.5</td><td>PASS</td></loq<>	ug/g	1.5	PASS
NMT 100	<loq< td=""><td>ug/g</td><td>2.5</td><td>PASS</td></loq<>	ug/g	2.5	PASS
NMT 80	<loq< td=""><td>ug/g</td><td>2.0</td><td>PASS</td></loq<>	ug/g	2.0	PASS
NMT 200	<loq< td=""><td>ug/g</td><td>5.0</td><td>PASS</td></loq<>	ug/g	5.0	PASS
NMT 50	<loq< td=""><td>ug/g</td><td>5.0</td><td>PASS</td></loq<>	ug/g	5.0	PASS
NMT 100	<loq< td=""><td>ug/g</td><td>2.5</td><td>PASS</td></loq<>	ug/g	2.5	PASS
	NMT 3000 NMT 410 NMT 600 NMT 1870 NMT 1870 NMT 3880 NMT 1180 NMT 380 NMT 380 NMT 360 NMT 2170 NMT 2170 NMT 2170 NMT 2170 NMT 70 NMT 70 NMT 50 NMT 50 NMT 80 NMT 80 NMT 80 NMT 80 NMT 80 NMT 200 NMT 50	SPECIFICATION RESULT NMT 3000 <loq< td=""> NMT 410 <loq< td=""> NMT 600 <loq< td=""> NMT 1870 <loq< td=""> NMT 1870 <loq< td=""> NMT 720 <loq< td=""> NMT 3880 <loq< td=""> NMT 380 <loq< td=""> NMT 890 <loq< td=""> NMT 360 <loq< td=""> NMT 2170 <loq< td=""> NMT 2170 <loq< td=""> NMT 2170 <loq< td=""> NMT 290 <loq< td=""> NMT 50 <loq< td=""> NMT 60 <loq< td=""> NMT 80 <loq< td=""> NMT 80 <loq< td=""> NMT 200 <loq< td=""> NMT 50 <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	SPECIFICATION RESULT UNIT NMT 3000 <loq< td=""> ug/g NMT 410 <loq< td=""> ug/g NMT 600 <loq< td=""> ug/g NMT 1870 <loq< td=""> ug/g NMT 1870 <loq< td=""> ug/g NMT 3870 <loq< td=""> ug/g NMT 3880 <loq< td=""> ug/g NMT 380 <loq< td=""> ug/g NMT 380 <loq< td=""> ug/g NMT 360 <loq< td=""> ug/g NMT 2170 <loq< td=""> ug/g NMT 2170 <loq< td=""> ug/g NMT 2170 <loq< td=""> ug/g NMT 290 <loq< td=""> ug/g NMT 50 <loq< td=""> ug/g NMT 60 <loq< td=""> ug/g NMT 80 <loq< td=""> ug/g NMT 80 <loq< td=""> ug/g NMT 50 <loq< td=""> ug/g</loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	SPECIFICATION RESULT UNIT LOQ NMT 3000 <loq< td=""> ug/g 75 NMT 410 <loq< td=""> ug/g 41 NMT 600 <loq< td=""> ug/g 15 NMT 1870 <loq< td=""> ug/g 47 NMT 1870 <loq< td=""> ug/g 47 NMT 1870 <loq< td=""> ug/g 47 NMT 200 <loq< td=""> ug/g 47 NMT 720 <loq< td=""> ug/g 47 NMT 3880 <loq< td=""> ug/g 97 NMT 1180 <loq< td=""> ug/g 30 NMT 380 <loq< td=""> ug/g 38 NMT 890 <loq< td=""> ug/g 22 NMT 360 <loq< td=""> ug/g 9.0 NMT 2170 <loq< td=""> ug/g 54 NMT 2170 <loq< td=""> ug/g 54 NMT 2170 <loq< td=""> ug/g 1.8 NMT 290 <loq< td=""> ug/g 1.3 NMT 50 <loq< td=""> ug/g</loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>

Residual Solvents: Class III (GC-MS)	Method Code: T201		Test	ed: 300C	T2025 1120	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Pentane	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Ethanol	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Diethyl Ether	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Acetone	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Ethyl Formate	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Isopropanol	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Methyl Acetate	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
Methyl tert-Butyl Ether	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
1-Propanol	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	
2-Butanone	NMT 5000	<loq< th=""><th>ug/g</th><th>125</th><th>PASS</th><th></th></loq<>	ug/g	125	PASS	

Vork Order: ISO05362 Sample: I14824	Received: 270CT2025 Issue	ed: 03NOV2025		Re	vision: 00 Page 3
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Ethyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
2-Butanol	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
2-Methyl-1-Propanol	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Isopropyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Heptane	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
1-Butanol	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Propyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
4-Methyl-2-Pentanone	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Isoamyl Alcohol	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Isobutyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
1-Pentanol	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Butyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Anisole	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Dimethylsulfoxide	NMT 5000	<loq< td=""><td>ug/g</td><td>125</td><td>PASS</td></loq<>	ug/g	125	PASS
Microbiological Examination	Method Code:	Т005	Те	sted: 280CT	2025 1426
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000 CFU/g	<loq< td=""><td>CFU/g</td><td>10 CFU/g</td><td>PASS</td></loq<>	CFU/g	10 CFU/g	PASS
Total Yeast and Mold	NMT 1,000 CFU/g	<loq< td=""><td>CFU/g</td><td>10 CFU/g</td><td>PASS</td></loq<>	CFU/g	10 CFU/g	PASS
Total Coliforms	NMT 100 CFU/g	<loq< td=""><td>CFU/g</td><td>10 CFU/g</td><td>PASS</td></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 25 g	Not Detected	N/A	1 CFU/25g	PASS
7-Hydroxymitragynine Limit (0.04%)	Method Code:	813	Те	sted: 310CT	2025 0226
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	124	ppm	2	PASS
Kavalactones (UHPLC-DAD)	Method Code:	T104	Те	sted: 310CT	2025 0552
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	0.163	w/w%	0.0016	N/A
Dihydrokavain	Report Results	0.334	w/w%	0.0016	N/A
Methysticin	Report Results	0.132	w/w%	0.0016	N/A
Dihydromethysticin	Report Results	0.197	w/w%	0.0016	N/A
Yangonin	Report Results	0.0945	w/w%	0.0016	N/A
Desmethoxyyangonin	Report Results	0.0836	w/w%	0.0016	N/A
Flavokawain A	Report Results	0.0101	w/w%	0.0016	N/A
Flavokawain B	Report Results	0.0174	w/w%	0.0016	N/A
Flavokawain C	Report Results	<loq< td=""><td>w/w%</td><td>0.0016</td><td>N/A</td></loq<>	w/w%	0.0016	N/A
Total Kavalactones	Report Results	1.00	w/w%	0.0016	N/A
Kavalactones (UHPLC-DAD)	Method Code:	T104	Те	sted: 310CT	2025 0552
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Kavain	Report Results	50.0	mg/unit	0.49	N/A
Dihydrokavain	Report Results	103	mg/unit	0.49	N/A
Methysticin	Report Results	40.5	mg/unit	0.49	N/A

Work Order: ISO05362 Sample: I14824	Received: 270CT2025 Issued: 03NOV2025			Revision: 00 Page		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Dihydromethysticin	Report Results	60.5	mg/unit	0.49	N/A	
Yangonin	Report Results	29.0	mg/unit	0.49	N/A	
Desmethoxyyangonin	Report Results	25.7	mg/unit	0.49	N/A	
Flavokawain A	Report Results	3.11	mg/unit	0.49	N/A	
Flavokawain B	Report Results	5.35	mg/unit	0.49	N/A	
Flavokawain C	Report Results	<loq< td=""><td>mg/unit</td><td>0.49</td><td>N/A</td></loq<>	mg/unit	0.49	N/A	
Total Kavalactones	Report Results	308	mg/unit	0.49	N/A	

Moisture Content	Method Co	Method Code: T505			OCT2025 1216
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Moisture	Report Results	95.1	%	0.1	N/A

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.024 g/mL and a packagespecified product volume of 30.0 mL. T813 results are reported on a dry-weight basis (DWB). Reported values converted from T102 results using the laboratory-measured moisture content by T505 for each sample: DWB $w/w\% = (as\text{-received } w/w\%) \div (1 - moisture\%/100).$

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

Signature:

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

Position: Laboratory Director July West

Department: Management 03NOV2025 Date: Tyler West Name: