# Certificate of Analysis

## Customer Information

| | |
|---|---|
| **Client:** | Steding and Sons Mercantile |
| **Attention:** | (737) 895-2303 |
| **Address:** | 1501 Panther Loop #7A<br>Pflugerville, TX 78660 |

## Testing Facility

| | |
|---|---|
| **Lab:** | Cora Science, LLC |
| **Address** | 8000 Anderson Square, STE 113<br>Austin, Texas 78757 |
| **Contact:** | info@corascience.com<br>(512) 856-5007 |

## Sample Image(s)



## Sample Information

| | |
|---|---|
| **Name:** | Invisible Electric - Liquid |
| **Lot Number:** | SSIE0001 |
| **Description:** | Ready-to-drink botanical infused beverage |
| **Condition:** | Good |
| **Job ID:** | ISO02908 |
| **Sample ID:** | I07337 |
| **Received:** | 04DEC2024 |
| **Completed:** | 10DEC2024 |
| **Issued:** | 11DEC2024 |

# Test Results

**Mitragyna Alkaloids (UHPLC-DAD)** **Method Code: T102** **Tested: 10DEC2024 | 1640**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Mitragynine | Report Results | 148 | mg/unit | 0.695 | N/A |
| 7-Hydroxymitragynine | Report Results | 0.752 | mg/unit | 0.185 | N/A |
| Paynantheine | Report Results | 8.01 | mg/unit | 0.695 | N/A |
| Speciogynine | Report Results | 4.19 | mg/unit | 0.695 | N/A |
| Speciociliatine | Report Results | 1.46 | mg/unit | 0.695 | N/A |
| Total Mitragyna Alkaloids | Report Results | 163 | mg/unit | 0.695 | N/A |

**Mitragyna Alkaloids (UHPLC-DAD)** **Method Code: T102** **Tested: 10DEC2024 | 1640**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Mitragynine | Report Results | 0.972 | w/w% | 0.0046 | N/A |
| 7-Hydroxymitragynine | Report Results | 0.005 | w/w% | 0.0012 | N/A |
| Paynantheine | Report Results | 0.052 | w/w% | 0.0046 | N/A |
| Speciogynine | Report Results | 0.027 | w/w% | 0.0046 | N/A |
| Speciociliatine | Report Results | 0.010 | w/w% | 0.0046 | N/A |
| Total Mitragyna Alkaloids | Report Results | 1.07 | w/w% | 0.0046 | N/A |

**Residual Solvents: Class I (GC-MS)** **Method Code: T201** **Tested: 07DEC2024 | 1746**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | NMT 8 | <LOQ | ug/g | 0.4 | PASS |
| 1,1,1-Trichloroethane | NMT 1500 | <LOQ | ug/g | 75 | PASS |
| Tetrachloromethane | NMT 4 | <LOQ | ug/g | 0.2 | PASS |
| Benzene | NMT 2 | <LOQ | ug/g | 0.1 | PASS |
| 1,2-Dichloroethane | NMT 5 | <LOQ | ug/g | 0.25 | PASS |

**Residual Solvents: Class II (GC-MS)** **Method Code: T201** **Tested: 07DEC2024 | 1746**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Methanol | NMT 3000 | <LOQ | ug/g | 94 | PASS |
| Acetonitrile | NMT 410 | <LOQ | ug/g | 10.25 | PASS |
| Dichloromethane | NMT 600 | <LOQ | ug/g | 15 | PASS |
| 1,2-Dichloroethene, (E) | NMT 1870 | <LOQ | ug/g | 46.75 | PASS |
| 1,2-Dichloroethene, (Z) | NMT 1870 | <LOQ | ug/g | 46.75 | PASS |
| Tetrahydrofuran | NMT 720 | <LOQ | ug/g | 18 | PASS |
| Cyclohexane | NMT 3880 | <LOQ | ug/g | 97 | PASS |
| Methylcyclohexane | NMT 1180 | <LOQ | ug/g | 29.5 | PASS |
| 1,4-Dioxane | NMT 380 | <LOQ | ug/g | 9.5 | PASS |
| Toluene | NMT 890 | <LOQ | ug/g | 22.25 | PASS |
| Chlorobenzene | NMT 360 | <LOQ | ug/g | 9 | PASS |
| Ethylbenzene | NMT 2170 | <LOQ | ug/g | 54.25 | PASS |
| o/p-Xylene | NMT 2170 | <LOQ | ug/g | 54.25 | PASS |
| m-Xylene | NMT 2170 | <LOQ | ug/g | 54.25 | PASS |
| Isopropylbenzene | NMT 70 | <LOQ | ug/g | 1.75 | PASS |
| Hexane | NMT 290 | <LOQ | ug/g | 7.25 | PASS |
| Nitromethane | NMT 50 | <LOQ | ug/g | 1.25 | PASS |
| Chloroform | NMT 60 | <LOQ | ug/g | 1.5 | PASS |
| 1,2-Dimethoxyethane | NMT 100 | <LOQ | ug/g | 2.5 | PASS |
| Trichloroethene | NMT 80 | <LOQ | ug/g | 2 | PASS |
| Pyridine | NMT 200 | <LOQ | ug/g | 5 | PASS |
| 2-Hexanone | NMT 50 | <LOQ | ug/g | 1.25 | PASS |
| Tetralin | NMT 100 | <LOQ | ug/g | 2.5 | PASS |

**Residual Solvents: Class III (GC-MS)** **Method Code: T201** **Tested: 07DEC2024 | 1746**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Pentane | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Ethanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Diethyl Ether | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Acetone | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Ethyl Formate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Isopropanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Methyl Acetate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Methyl tert-Butyl Ether | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 1-Propanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 2-Butanone | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Ethyl Acetate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 2-Butanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 2-Methyl-1-Propanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Isopropyl Acetate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Heptane | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 1-Butanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Propyl Acetate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 4-Methyl-2-Pentanone | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Isoamyl Alcohol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Isobutyl Acetate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| 1-Pentanol | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Butyl Acetate | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Dimethylsulfoxide | NMT 5000 | <LOQ | ug/g | 125 | PASS |
| Anisole | NMT 5000 | <LOQ | ug/g | 125 | PASS |

**Elemental Impurities (ICP-MS)** **Method Code: T301** **Tested: 06DEC2024 | 1607**

| 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 | 0.032 | ug/g | 0.002 | PASS |
| Lead | NMT 1.20 | <LOQ | ug/g | 0.002 | PASS |

**Microbiological Examination** **Method Code: T005** **Tested: 04DEC2024 | 1657**

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|---|---|---|---|---|---|
| Total Aerobic Plate Count | 10,000,000 CFU / g | Not Detected | CFU/g | 10 CFU / g | PASS |
| Total Yeast and Mold | 100,000 CFU / g | Not Detected | CFU/g | 10 CFU / g | PASS |
| Total Coliforms | 10,000 CFU / g | Not Detected | CFU/g | 10 CFU / g | PASS |
| Escherichia coli | Not Detected in 10 g | Not Detected | N/A | 1 CFU / 10 g | PASS |
| Salmonella | Not Detected in 25 g | Not Detected | N/A | 1 CFU / 25 g | PASS |

## Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.018 g/mL and package specified fill volume of 15.0 mL.

## Revision History

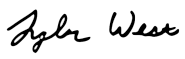
rev 00 - Initial release.

## 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:** 11DEC2024