



Certificate of Analysis

Testing Facility

Lab: Cora Science, LLC
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Sample Information

Name: Mitragynine Tablet
Lot Number: M/150/002
Description: Pressed Tablet
Condition: Good

Received: 15SEP2025
Completed: 19SEP2025
Issued: 19SEP2025

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102**Tested: 16SEP2025 | 0428**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	146	mg/unit	0.026	N/A
7-Hydroxymitragynine	Report Results	0.148	mg/unit	0.026	N/A
Paynantheine	Report Results	3.37	mg/unit	0.026	N/A
Speciogynine	Report Results	2.52	mg/unit	0.026	N/A
Speciociliatine	Report Results	0.248	mg/unit	0.026	N/A
Total Mitragyna Alkaloids	Report Results	153	mg/unit	0.026	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102**Tested: 16SEP2025 | 0428**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	15.9	w/w%	0.0029	N/A
7-Hydroxymitragynine	Report Results	0.0161	w/w%	0.0029	N/A
Paynantheine	Report Results	0.366	w/w%	0.0029	N/A
Speciogynine	Report Results	0.274	w/w%	0.0029	N/A
Speciociliatine	Report Results	0.0269	w/w%	0.0029	N/A
Total Mitragyna Alkaloids	Report Results	16.6	w/w%	0.0029	N/A

Residual Solvents: Class I (GC-MS)

Method Code: T201**Tested: 19SEP2025 | 1333**

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

Residual Solvents: Class II (GC-MS)		Method Code: T201		Tested: 19SEP2025 1333	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Methanol	NMT 3000	<LOQ	ug/g	75	PASS
Dichloromethane	NMT 410	<LOQ	ug/g	41	PASS
Acetonitrile	NMT 600	<LOQ	ug/g	15	PASS
Cyclohexane	NMT 1870	<LOQ	ug/g	47	PASS
1,2-Dichloroethene, (E)	NMT 1870	<LOQ	ug/g	47	PASS
1,2-Dichloroethene, (Z)	NMT 720	<LOQ	ug/g	18	PASS
Tetrahydrofuran	NMT 3880	<LOQ	ug/g	97	PASS
Methylcyclohexane	NMT 1180	<LOQ	ug/g	30	PASS
1,4-Dioxane	NMT 380	<LOQ	ug/g	38	PASS
Toluene	NMT 890	<LOQ	ug/g	22	PASS
Ethylbenzene	NMT 360	<LOQ	ug/g	9.0	PASS
Chlorobenzene	NMT 2170	<LOQ	ug/g	54	PASS
o/p-Xylene	NMT 2170	<LOQ	ug/g	54	PASS
Isopropylbenzene	NMT 2170	<LOQ	ug/g	54	PASS
m-Xylene	NMT 70	<LOQ	ug/g	1.8	PASS
Chloroform	NMT 290	<LOQ	ug/g	7.3	PASS
1,2-Dimethoxyethane	NMT 50	<LOQ	ug/g	1.3	PASS
Pyridine	NMT 60	<LOQ	ug/g	1.5	PASS
2-Hexanone	NMT 100	<LOQ	ug/g	2.5	PASS
Hexane	NMT 80	<LOQ	ug/g	2.0	PASS
Trichloroethene	NMT 200	<LOQ	ug/g	5.0	PASS
Tetralin	NMT 50	<LOQ	ug/g	5.0	PASS
Nitromethane	NMT 100	<LOQ	ug/g	2.5	PASS

Residual Solvents: Class III (GC-MS)		Method Code: T201		Tested: 19SEP2025 1333	
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	236	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
Dimethylsulfoxide	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
2-Butanol	NMT 5000	<LOQ	ug/g	125	PASS
Ethyl Acetate	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

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
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
Anisole	NMT 5000	<LOQ	ug/g	125	PASS

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured unit weight of 0.921 grams.

Revision History

rev 00 - Initial release.
rev 01 - Added T201 results.

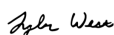
Abbreviations

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:



Position:

Laboratory Director

Department:

Management

Name:

Tyler West

Date:

19SEP2025