



Certificate of Analysis

Customer Information

Client: Kats Botanicals
Attention: mike@katsbotanicals.com
Address: 750 Hickory Industrial
Old Hickory, TN 37138

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: NANLM-10 M300
Lot Number: 7230
Description: Liquid botanical extract
Condition: Good
Job ID: ISO07210
Sample ID: I20193
Received: 28MAY2026
Completed: 01JUN2026
Issued: 02JUN2026

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 29MAY2026 | 0421

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	351	mg/unit	0.063	N/A
7-Hydroxymitragynine	Report Results	0.164	mg/unit	0.063	N/A
Paynantheine	Report Results	39.8	mg/unit	0.063	N/A
Speciogynine	Report Results	26.2	mg/unit	0.063	N/A
Speciociliatine	Report Results	14.4	mg/unit	0.063	N/A
Total Mitragyna Alkaloids	Report Results	432	mg/unit	0.063	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 29MAY2026 | 0421

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	3.32	w/w%	0.00059	N/A
7-Hydroxymitragynine	Report Results	0.00155	w/w%	0.00059	N/A
Paynantheine	Report Results	0.377	w/w%	0.00059	N/A
Speciogynine	Report Results	0.248	w/w%	0.00059	N/A
Speciociliatine	Report Results	0.137	w/w%	0.00059	N/A
Total Mitragyna Alkaloids	Report Results	4.09	w/w%	0.00059	N/A

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 29MAY2026 | 1133

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 1.50	<LOQ	ug/g	0.006	PASS
Cadmium	NMT 0.50	<LOQ	ug/g	0.002	PASS
Mercury	NMT 0.20	<LOQ	ug/g	0.002	PASS
Lead	NMT 0.50	<LOQ	ug/g	0.002	PASS

Residual Solvents: Class I (GC-MS)		Method Code: T201		Tested: 29MAY2026 2118		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
1,1-Dichloroethene	NMT 8	<LOQ	ug/g	0.40	PASS	
1,1,1-Trichloroethane	NMT 1500	<LOQ	ug/g	75	PASS	
Tetrachloromethane	NMT 4	<LOQ	ug/g	0.20	PASS	
Benzene	NMT 2	<LOQ	ug/g	0.10	PASS	
1,2-Dichloroethane	NMT 5	<LOQ	ug/g	0.25	PASS	

Residual Solvents: Class II (GC-MS)		Method Code: T201		Tested: 29MAY2026 2118		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Methanol	NMT 3000	<LOQ	ug/g	75	PASS	
Acetonitrile	NMT 410	<LOQ	ug/g	41	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	38	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	5	PASS	
Tetralin	NMT 100	<LOQ	ug/g	2.5	PASS	
Total Xylenes	NMT 2170	<LOQ	ug/g	54	PASS	

Residual Solvents: Class III (GC-MS)		Method Code: T201		Tested: 29MAY2026 2118		
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	

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

Microbial Examination		Method Code: T005		Tested: 01JUN2026 0842	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Yeast and Mold	NMT 1,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Coliforms	NMT 100 CFU/g	<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 10 g	Not Detected	N/A	1 CFU/10g	PASS

Loss on Drying		Method Code: T505		Tested: 29MAY2026 1241	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Loss on Drying	Report Results	94.3	%	0.1	N/A

7-Hydroxymitragynine Limit (0.04%)		Method Code: 813		Tested: 29MAY2026 1241	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	272	ppm	104	PASS

Unit Weight Analysis (Gravimetric)		Method Code: T503		Tested: 28MAY2026 1758	
PARAMETER	SPECIFICATION	RESULT	UNIT	RANGE	NOTES
Density	Report Results	1.057	g/mL	0.5-1.5	N/A

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density and package specified fill volume. T813 results are reported on a dry-weight basis (DWB). Reported values converted from T102 results using the laboratory-measured loss on drying by T505 for each sample:
DWB w/w% = (as-received w/w%) ÷ (1 – moisture%/100).

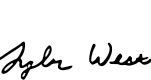
Revision History

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
Name:	Tyler West	Department:	Management
		Date:	02JUN2026