WONDERLAND LABS
1341 Distribution Way 16, Vista CA 92081
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Certificate of Analysis

12 NOVEMBER 2026

TKSHTWML300

LOT #: 88831(2G5CG)



CLIENT:	**WESTMAN PRODUCTS**	**SAMPLE SET:**	**MWC-261110-A**
Address:	8123 S Orange Ave Ste 154	Prepped By:	Sarah T.
Address:	Orlando, FL 32809	Date Acquired:	11/11/2026
Dilution:	1:10	Acquisition Method:	MIT-EVO_R2026-PT
Sample Matrix:	Liquid	Testing ID:	GRD-MIT_229736.D
Sample Weight:	20mL	Date Processed:	11/11/2026
Product Weight:	Raw Material	Calibration ID:	CALI-244-2026

#	Analyte	Formula	Analytical Method(s)	Total % (w/v)
1	Mitragynine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	0.49
2	7-Hydroxymitragynine	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
3	MGM-15 (semi-synthetic)	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
4	Mitragynine Pseudoindoxyl	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
5	Speciogynine	$C_{23}H_{28}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
6	Paynantheine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
7	Speciociliatine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
8	9-Hydroxycorynantheidine	$C_{22}H_{28}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
9	10-Hydroxycorynantheidine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/T
10	7-Acetoxymitragynine	$C_{25}H_{32}N_2O_6$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
11	9-Fluoro-7-hydroxymitragynine	$C_{23}H_{29}FN_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D
			TOTAL ALKALOIDS:	0.49%

Mitragynine Content:	**4.9**	mg/mL
7OH Content:	**N/D**	mg/mL
Pseudo Content:	**N/D**	mg/mL
MGM-15 Content:	**N/D**	mg/mL

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VERIFIED BY:

Quality Assurance: Sarah T.

Method conforms to AOAC Kratom Working Group SMPRs for mitragynine and 7-OH plus internal lab methods MIT-EVO_R2026-PT / JIA-KVL_2024-R1. 7-Hydroxymitragynine (7-OH) and Mitragynine Pseudoindoxyl (MGPI): Limit of Detection (LOD): 1 ppm. Limit of Quantitation (LOQ): 10 ppm. N/D (Not Detected) indicates no analyte detected at or above the applicable LOD. For N/D results, the LOD may be used as the stated concentration where permitted by applicable regulations. Decision Rule: When statements of conformity are provided, measurement of uncertainty is not taken into consideration when determining those statements. Simple acceptance is used. COA results apply to the samples as received. All testing completed under ISO/IEC 17025:2017 conditions or Pending Letter of Accreditation.

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Biological Analysis

13 NOVEMBER 2026

WESTMAN PRODUCTS
8123 S Orange Ave
Ste 154
Orlando, FL 32809

Total Aerobics, Yeast & Mold, Coliforms

Sample ID	Lot #	Analyte	Spec (1g)	Result	Method
TKDSHTWML450	3G11C(F1AB6)	Aerobic Plate Count	<1,000,000 cfu/g	<100,000 cfu/g	AOAC 2015.13 (Rapid Petrifilm)
		Coliforms	<10,000 cfu/g	<10,000 cfu/g	AOAC 2000.15 (Rapid Petrifilm)
		Yeast & Mold	<100,000 cfu/g	<100,000 cfu/g	AOAC 2014.05 (Rapid Petrifilm)

Sample ID	Lot #	Analyte	Spec (1g)	Result	Method
TKSHTWML300	88831(2G5CG)	Aerobic Plate Count	<1,000,000 cfu/g	<100,000 cfu/g	AOAC 2015.13 (Rapid Petrifilm)
		Coliforms	<10,000 cfu/g	<10,000 cfu/g	AOAC 2000.15 (Rapid Petrifilm)
		Yeast & Mold	<100,000 cfu/g	<100,000 cfu/g	AOAC 2014.05 (Rapid Petrifilm)

Sample ID	Lot #	Analyte	Spec (1g)	Result	Method
BBKSHTPA	BA8A5(3A6FG)	Aerobic Plate Count	<1,000,000 cfu/g	<100,000 cfu/g	AOAC 2015.13 (Rapid Petrifilm)
		Coliforms	<10,000 cfu/g	<10,000 cfu/g	AOAC 2000.15 (Rapid Petrifilm)
		Yeast & Mold	<100,000 cfu/g	<100,000 cfu/g	AOAC 2014.05 (Rapid Petrifilm)

Typical Aerobic Plate Count Range for Mitragyna speciosa is <100,000 CFU/g.

Sample Set: MWC-261110-A

Test Date: 11/13/26

Bio Final: Within Spec

SEAL OF AUTHENTICITY

VERIFIED BY:

Quality Assurance: Sarah T.

Method conforms to AOAC Kratom Working Group SMPRs for mitragynine and 7-OH plus internal lab methods MIT-EVO_R2026-PT / JIA-KVL_2024-R1. 7-Hydroxymitragynine (7-OH) and Mitragynine Pseudoindoxyl (MGPI): Limit of Detection (LOD): 1 ppm. Limit of Quantitation (LOQ): 10 ppm. N/D (Not Detected) indicates no analyte detected at or above the applicable LOD. For N/D results, the LOD may be used as the stated concentration where permitted by applicable regulations. Decision Rule: When statements of conformity are provided, measurement of uncertainty is not taken into consideration when determining those statements. Simple acceptance is used. COA results apply to the samples as received. All testing completed under ISO/IEC 17025:2017 conditions or Pending Letter of Accreditation.

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