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Certificate of Analysis

14 AUGUST 2026

MIT POWDER

LOT #: WC



CLIENT:	Molecular Solutions LLC	SAMPLE SET:	244680
Address:	26400 NE Valley St	Prepped By:	Sarah T.
Address:	United States	Date Acquired:	08/14/2026
Dilution:	1:10	Acquisition Method:	MIT-EVO_R2026-PT
Sample Matrix:	Powder	Testing ID:	GRD-MIT_229012.D
Sample Weight:	2000mg	Date Processed:	08/14/2026
Product Weight:	Raw Material	Calibration ID:	CALI-244-2026

#	Analyte	Formula	Analytical Method(s)	Total %	Unit
1	Mitragynine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	91.00	mg/g
2	7-Hydroxymitragynine	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D	mg/g
3	MGM-15 (semi-synthetic)	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D	mg/g
4	Mitragynine Pseudoindoxyl	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D	mg/g
5	Speciogynine	$C_{23}H_{28}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	0.04	mg/g
6	Paynantheine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	4.67	mg/g
7	Speciociliatine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	2.53	mg/g
8	9-Hydroxycorynantheidine	$C_{22}H_{28}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/T	mg/g
9	10-Hydroxycorynantheidine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	N/T	mg/g
10	7-Acetoxymitragynine	$C_{25}H_{32}N_2O_6$	HPLC (Adapted Mudge & Brown, 2020*)	N/T	mg/g
11	9-Fluoro-7-hydroxymitragynine	$C_{23}H_{29}FN_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/T	mg/g
TOTAL ALKALOIDS:				98.25%	mg/g

Mitragynine Content:	910.0	mg/g
7OH Content:	N/D	mg/g
Pseudo Content:	N/D	mg/g
MGM-15 Content:	N/D	mg/g



SEAL OF AUTHENTICITY

VERIFIED BY:

Quality Assurance:

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.
LOQ for 7-OH, MGM-15, and Pseudoindoxyl is 100ppm and N/D (Not Detected) indicates a result below the Limit of Quantitation (LOQ of 100 ppm / 0.01%). 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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