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# Certificate of Analysis

## Client Information

**MitraMan Botanicals**  
PO Box 8305  
Round Rock, TX 78664  
USA  
601.988.5060

## Sample Information

ARL ID: 646474  
Date Received: 12/6/2022  
Description: Red MD MitraManGeneral  
Lot#: 0822

## Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
<u>K2A Profile, Pathogenic E. coli</u>						1
<u>Complete Micro Profile</u>	USP, AOAC					1
Total Plate Count (High Count)	USP <2021>	100	< 10 Million	90,000	cfu's/g	1
Coliforms	AOAC 991.14	100	< 18,000	400	cfu's/g	1
Pathogenic E. coli	AOAC RI	Absent	Absent	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Absent	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Absent	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	< 100,000	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	< 100,000	2,000	cfu's/g	1
<u>Heavy Metals</u>	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	< 1	0.062	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	< 0.5	0.034	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	< 0.5	0.061	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	< 1	0.635	ppm	1
<u>Mitragynine Package</u>	HPLC 2.046					1
Mitragynine	HPLC 2.046	0.03	Record Only	1.27	%	1
7-Hydroxy-Mitragynine	HPLC 2.046	0.04	Record Only	< 0.04	%	1

Form: arlcoa031201a Report: 646474

experience • professionalism • value

Released by: Spencer Ashby

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This Certificate of Analysis represents data only for the sample provided. It does not constitute a guarantee of quality for the entire production lot.

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Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
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†Method Detection Limit (MDL):

In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None Detected", it means any visible growth was below this limit.

†Limit of Quantitation (LOQ):

In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

**Under accreditation number 77504, ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and scope are also available upon request.**

