





Analytical Resource Laboratories

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## Certificate of Analysis

### Client Information

Christopher's Organic Botanicals  
PO Box 281  
Deepwater, NJ  
08023 USA  
856-469-1810

### Sample Information


ARL ID: 574553  
Date Received: 1/11/2022  
Description: Red Maeng Da  
Lot#: 150220  
Expiration Date: 3/23  
Serving Size: 2 g

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.013	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.043	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.143	ppm	1
Kratom Alkaloids	HPLC 2.046					1
Mitragynine	HPLC 2.046	0.1	Record Only	0.7	%	1
7-Hydroxy-Mitragynine	HPLC 2.046	0.04	Record Only	<0.04	%	1
Speciogynine	HPLC 2.046	0.1	Record Only	0.1	%	1
Paynantheine	HPLC 2.046	0.1	Record Only	0.2	%	1

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Released by: Kara Woodbury  
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Page 2

†**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.

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