

# CERTIFICATE OF ANALYSIS



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**Report Issued To:** Yaju  
Merwedeweg 5c1  
Breukelen 3621 LP  
Netherlands

**Sample Name:** Tongkat Ali Root Extract  
**Description:** Powdered extract; Fine powder  
**Lot #:** TKA230415  
**AL #:** 23150VYM\_3  
**Analysis ID:** 201845  
**Received:** 05/30/23

## Determination of Heavy Metals Content by USP <561>

Element	Amount (µg/g)	USP <561> Limit (µg/g)	Result
Arsenic	<0.125	2.0	Pass
Cadmium	<0.031	0.5	Pass
Mercury	<0.025	1.0*	Pass
Lead	0.642	5.0	Pass

### Chromatographic Conditions:

Method: ATM-815-0307  
Preparation: Microwave Digestion  
Instrument: ICP-MS

### Sample Preparation:

Transferred 500 mg of sample to a glass test tube. Added 4 mL nitric acid and 1 mL hydrochloric acid and shook well. Let sit for 30 minutes. Digested sample using microwave digester. Let cool and transferred to a 50 mL Digitube and filled to volume with water. Mixed well and transferred to test tube for analysis.

### Report Summary:

Conclusion: This "Tongkat Ali Root Extract" test sample has <0.125 µg/g arsenic, <0.031 µg/g cadmium, <0.025 µg/g mercury, and 0.642 µg/g lead.  
OOS Reference: N/A  
Notes: \*Methylmercury determination is not necessary when the content for total mercury is less than the 0.2ppm limit for methylmercury.  
MassHunter File: 15323 Heavy Metals  
Rev 1: Updated client address

**Analysis Date:** 06/05/23  
**Rev 1:** 06/20/23 GL

**Analyzed By:** L Brown

**Authorized By:** Anthony Fontana,  
Laboratory Director

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