

# CERTIFICATE OF ANALYSIS

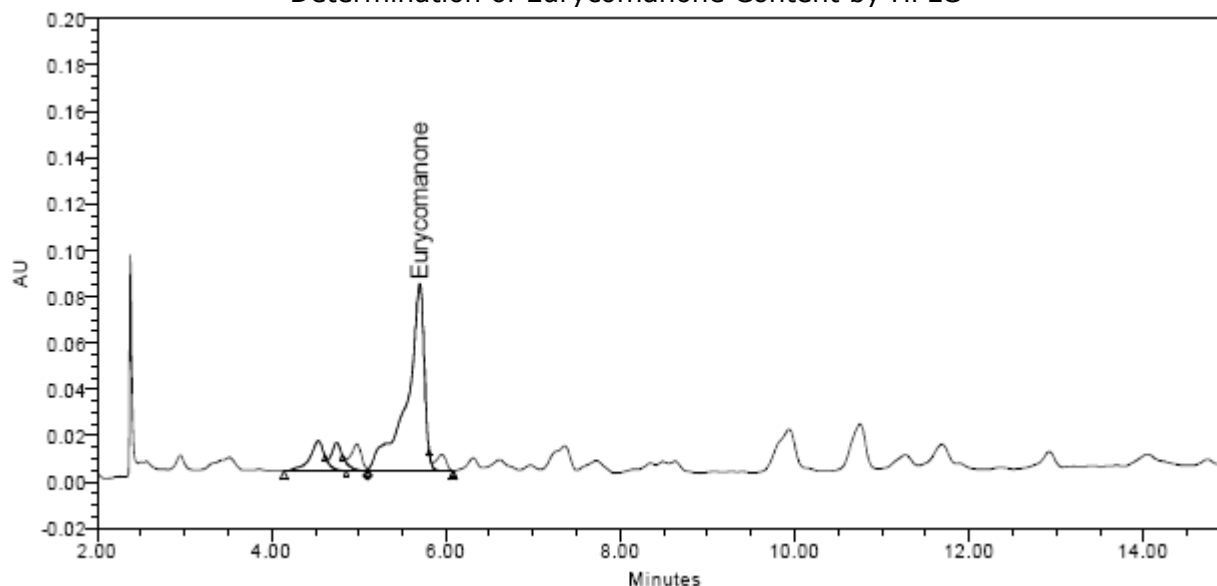


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**Report Issued To:** Lost Empire Herbs  
8301 NW 101st Ter.  
Kansas City MO 64153-2321  
United States

**Sample Name:** Tongkat Ali  
**Description:** Powdered extract; Fine tan powder  
**Lot #:** BTKA23NOV22  
**AL #:** 23079WTJ\_2  
**Analysis ID:** 197508  
**Received:** 03/20/23

## Determination of Eurycomanone Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
5.7	Eurycomanone	0.527	0.523	0.525	Report Only	N/A

### Chromatographic Conditions:

Method: ATM-815-0222  
Column: AP345 Luna 5 µm C18(2) 100 A (150 x 4.6 mm)  
Temperature: 40°C  
Flow Rate: 1 mL/min  
Injection Volume: 20 µL  
UV Detection: 254 nm  
Mobile Phase: 0.1% Formic Acid in Water  
Acetonitrile  
HPLC Instrument: Alliance\_1

### Sample Preparation:

Weighed 2500 mg sample into 10 mL volumetric flask and added 7 mL of methanol. Vortexed for 30 seconds and sonicated for 15 minutes at room temperature. Let cool, filled to volume, and mixed by inversion. Diluted 1:25 in methanol. Filtered through 0.45 µm PTFE syringe filter.

### Report Summary:

Conclusion: This " Tongkat Ali " test sample contains an average 0.5% of Eurycomanone on the as is basis.  
OOS Reference: N/A  
Empower Reference: 09423 Eurycomanone

Analysis Date : 04/05/23

Analyzed By: C Decasiano

Authorized By: Diana Jimenez,  
Lead Analytical Chemist