# **CERTIFICATE OF ANALYSIS**



12661 HOOVER STREET GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

**Report Issued To:** Yaju

uju

Frans Halsstraat 62 Utrecht 3583BS

Netherlands

Sample Name: Tongk

Tongkat Ali Root Extract (Eurycoma

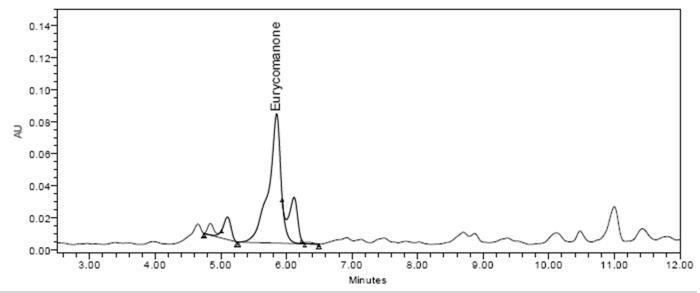
Longifolia Root

**Description:** Powdered extract; Fine powder

Lot #: TKA220913 AL #: 22353HEN\_1

**Analysis ID:** 191935 **Received:** 12/19/22

### Determination of Eurycomanone Content by HPLC



Ret. Time (min)Compound NamePrep 1 (%)Prep 2 (%)Average (%)SpecificationResult5.8Eurycomanone4.5824.5834.5825%Pass

#### **Chromatographic Conditions:**

Method: ATM-815-0222

Column: AP286 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\_3

#### Sample Preparation:

Weighed 25 mg sample into 25 mL volumetric flask and and added 20 mL of methanol. Vortexed for 30 seconds and sonicated for 15 minutes at room temperature. Let cool, filled to volume, and mixed by inversion. Filtered through 0.45  $\mu$ m PTFE syringe filter.

## Report Summary:

Conclusion: This "Tongkat Ali Root Extract (Eurycoma Longifolia Root)" test sample contains an average of 5%

Eurycomanone on the as is basis.

OOS Reference: N/A

WI Reference: 01023 Eurycomanone

Analysis Date: 01/11/23 Analyzed By: JM Lopez Authorized By: Celine Decasiano,
Analytical Chemistry Supervisor