# **CERTIFICATE OF ANALYSIS**



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**Report Issued To:** Yaju

Frans Halsstraat 62

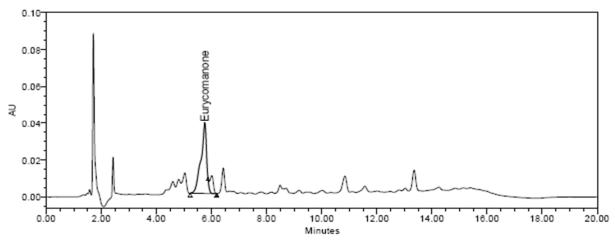
Utrecht 3583BS Netherlands **Sample Name:** Tongkat Ali Root Extract

**Description:** Powdered extract; Fine powder

Lot #: TKA230415 AL #: 23150VYM\_2

**Analysis ID:** 202256 **Received:** 05/30/23

## Determination of Eurycomanone Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
5.7	Eurycomanone	5.097	5.133	5.115	5%	Pass

## **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 Alliance\_4

### Sample Preparation:

HPLC Instrument:

Weighed 20 mg sample into a 50 mL volumetric flask and added 40 mL of methanol. Vortexed for 30 seconds and sonicated for 15 minutes at room temperature. Let cool, filled to volume with methanol, and mixed by inversion. Filtered through  $0.45 \mu m$  PTFE syringe filter.

### **Report Summary:**

Conclusion: This "Tongkat Ali Root Extract" test sample contains an average of 5% eurycomanone on the as-is

basis.

OOS Reference: N/A

WI Reference: 15923 Eurycomanone

Analysis Date: 06/09/23 Analyzed By: JM Lopez Authorized By: Celine Decasiano,
Analytical Chemistry Supervisor