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

Merwedeweg 5c2

Breukelen 3621 LP

Netherlands

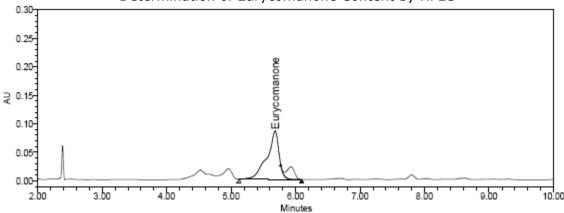
Sample Name: Tongkat Ali Root Extract

Description: Powdered extract; Fine beige powder

Lot #: 10TKA231007 AL #: 23303YZM 1

Analysis ID: 215509 Received: 10/30/23

Determination of Eurycomanone Content by HPLC



Ret. Time (min) **Compound Name** Prep 1 (%) Prep 2 (%) Average (%) Specification Result 10.547 10% 5.7 Eurycomanone 10.515 10.531 **Pass**

Chromatographic Conditions:

Method: ATM-815-0222

Column: AP392 Luna 5 µm C18(2) 100 A (150 x 4.6 mm)

Temperature: Flow Rate: 1 mL/min Injection Volume: 20 µĹ UV Detection: 254 nm

Mobile Phase: 0.1% Formic Acid in Water

Acetonitrile **HPLC Instrument:** Alliance_6

Sample Preparation:

Weighed 25 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 µm PTFE syringe filter.

Report Summary:

Conclusion: This " Tongkat Ali Root Extract " test sample contains an average of 11% eurycomanone on the as-is

basis.

OOS Reference: N/A

WI Reference: 31223 Eurycomanone

Analysis Date : 11/09/23 Analyzed By: C Decasiano Authorized By: Diana Jimenez, **Lead Analytical Chemist**