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

Sample Name:

Tongkat Ali Root Extract

Merwedeweg 5c1

Description:

Powdered extract; Fine powder

Breukelen 3621 LP Netherlands

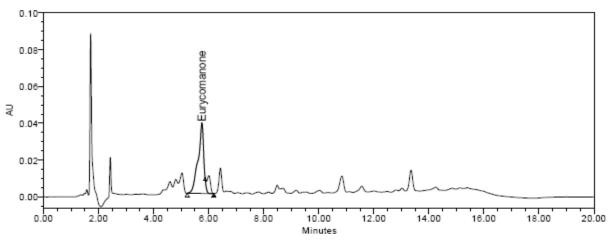
Lot #: TKA230415 AL #:

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

AP345 Luna 5 µm C18(2) 100 A (150 x 4.6 mm) Column:

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

0.1% Formic Acid in Water Mobile Phase:

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 µm PTFE syringe filter.

Report Summary:

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

OOS Reference: N/A

15923 Eurycomanone WI Reference: Rev 1: Updated client address

Analysis Date : 06/09/23 Analyzed By: JM Lopez Authorized By: Celine Decasiano, Rev 1: 06/20/23 GL **Analytical Chemistry Supervisor**