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### CERTIFICATE OF ANALYSIS

#### Tongkat Ali Extract

(Eurycoma longifolia root extract)

Material Lot #: Country of Origin: 20190313 Malaysia Manufacturer Analysis Date: 02/24/2020 Analysis Date: 04/24/2020

Retesting Date: 04/24/2023

Analysis	Claim	Result
Eurycomanone	≥12%	14.1%*

Test	Specification	Result	
HPLC Assay Arsenic Lead Cadmium Mercury Total Aerobic Count Yeast & Mold E.coli Salmonella Coliform	≥12% ≤1.5 ppm ≤0.5 ppm ≤0.5 ppm ≤3.5 ppm <3000 cfu/g <100 cfu/g Negative Negative <10 cfu/g	14.1% 1.043 ppm 0.398 ppm 0.019 ppm <0.001 ppm Conforms Conforms Conforms Conforms Conforms	

<sup>\*</sup>We believe Alkemist Labs' specialized HPLC procedure provides the most accurate estimate of Eurycomanone content.

Tongkat All Extract should be stored at or below room temperature in a tightly sealed durable container. Tongkat All Extract should be protected from excess heat, direct smilight, excess humidity, and moisture. Tongkat All Extract has a retesting period of 3 years from the date of analysis when properly stored.

#### **CERTIFICATE OF ANALYSIS**



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

Synaptent 1442 W Fulton St Chicago IL 60607 United States

 Sample Name:
 Eurycoma longifolia extract

 Description:
 Powdered extract; Foil pouch

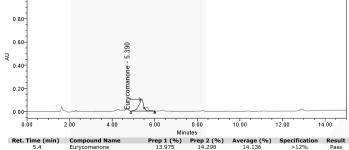
 Logo
 20190313

 AL #:
 20168TMN\_1

 Analysis ID:
 137699

 Received:
 06/16/20





iditions:
ATM-815-0222
AP22 Luna 5µ C18 (2) (150 x 4.6 mm)
40°C
1 ml/min
20 µL
254 m
0.1% Formic Acid in Water
Acetonitrile
Alliance\_4

Chromatographic Co Method: Column: Temperature: Flow Rate: Injection Volume: UV Detection: Mobile Phase:

HPLC Instrument

Sample Preparation:
Weighed 250 mg sample into 10 mL volumetric flask and fillled to volume with methanol. Vortexed for 30 seconds and sonicated for 15 minutes at room temperature. Let cool and filled to volume with methanol. Mixed by inversion. Diluted 1:50 in methanol. Filtered through 0.45 µm PTFE syringe filter.

This "Eurycoma longifolia extract" test sample contains an average of 14% Eurycomanone on the as is

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void 9.2018 Alkemist Labs All Rights Reserved

basis. N/A 17020 Eurycomanone

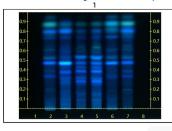
Analysis Date : 06/19/20 Analyzed By: D Jimenez Authorized By: Celine Deneuve, Analytical Chemistry Supervisor

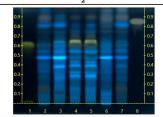
Certificate Issued To: Synaptent 1442 W Fulton St Chicago, IL 60607 **United States** 



#### Work performed at: Alkemist Labs

## <u>Certificate of Analysis:</u> Tongkat Ali Extract (20190313) High Performance Thin-Layer Chromatography with Photo-Documento





Company Name Title: Plant Part: Tongkat Ali Extract root
04/29/20
Foil Pouch
powdered extract
Powder [sliver foil pouch]
(20190313) ->Lanes 4(0.5µl), 5(1µl)
20120CSB\_1 Plant Part: Sample Received: Sample Packaging: Form of Botanical: Appearance: Lof Number: Sample: Latin Name: Reference Sample:

2012OCSB, I.

Etryscomd (orgifolia)

Lane 2(10,µ) (XY18715JVA1), Lane 3(10,µ) (XY23215NTX2), Lane 6(10,µ) (XY23215NTX2), Lane 7(10,µ) (XY18715JVA1)

Euryccomd (orgifolia (root); held at Alkemist Labs, Garden Grove, CA.

A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoong, K. Tran, J. Lopez, J. Mares 135478

Ozg-3rd. Methanol, sociacle Apheal at 60°C for 30 min.

Silica gel 80, HPTLC plates

Charloromethane: Methanol: Water [7/3/0.4]

Detection:

Dichloromethanes Methanoic Water (7/3/0.4)

(1) UV 365 nm (2)

(2) 10/8 Sulfuria, 100°C, 2min, 366 nm (Reich, E., 2007)

Lane 1(34)) Eurycomanone (5373-005548, CHR), Methanol (57326, EMD); Lane 8(3µl) Oleanolic acid (81300116, ALF), Methanol (56169, EMD)

HRTLC Association Tongkat Aliroot (Eurycoma longifolia)

1071-50P-7201 Reference Standard:

Comments & Conclusions: Lones 4, 5 are the fest sample Tongkat Ali Extract (20190313), Lanes 2, 3, 6, 7, are the reference sample comparison. This test sample, Tongkat Ali Extract (20190316) has characteristics of the chromotographic profile of the reference s European (onglofo), used above. This test sample Tongkat Ali Extract (20190313) indicates the presence of European longifolia rout.

NOTE: The above conclusion may be a function of the natural variance bound in botanicals & for the exhaction process used to create specific exhacts. The growing and drying conditions age, seasond variations, geographic location, exhaction solverst, etc. all play a role in the phylochemical fingerprint of botanicals as well as their exhacts; hence, chromatographic variations are expected.



Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 05/28/20



## **Certificate of Analysis**

Client:

ACCREDITED

Synaptent LLC 47 W Polk Street, 100-241 Chicago, IL 60654

Sample Collected By: Client

Product Name	Tongkat Ali	Product Lot Number	20190313
Report Date	04/24/20	Laboratory Number	20030048

Description	Method	Result
Eurycomanone	HPLC	37.4%
Lead	ICP-MS	0.398 ppm
Arsenic	ICP-MS	1.043 ppm
Cadmium	ICP-MS	0.019 ppm
Mercury	ICP-MS	<0.001 ppm
Total Aerobic Count	Biolumix	<1, 000 cfu/g
Yeast and Mold	Biolumix	<100 cfu/g
E. Coli	Biolumix	Absent
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Absent

Collin Thomas WX Laboratory Manager

04/24/2020 4/24/20 Date

The result(s) stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

## Main Benefits

- Tongkat Ali root extract is a traditional preparation of Eurycoma longifolia used in Southeastern Asia known for its bitter taste.
- It has a wide variety of uses, with many sources suggesting it has aphrodisiac, immune modulating, and anti-cortisol properties.
- The primary active compound in Tongkat Ali is Eurycomanone and its glycosides which are known for their bitterness.

## **Main Cautions**

- \* Tongkat Ali extract may modulate certain hormones (other than cortisol) but there is not enough strong research to indicate which hormones.
- This extract is significantly more bitter than many other similar extracts and may cause discomfort if tasted.
- Consult your physician before using Tongkat Ali if you are taking any medication. Yohimbine has not been tested for safety in pregnant or breastfeeding women

# **Usage Tips**

- A 0.15cc measuring scoop is included. One level scoop contains approximately one serving of approximately 60mg of Tongkat Ali extract. As a dietary supplement, take 1 servings 1-2 times per day. Start at the lower suggested quantity to assess response.
- There are no known negative side effects attriubted to Tongkat Ali, but it is still recommended to cycle it for 6-10 weeks at a time
- Due to this extract's high concentration of Eurycomanone, the use of capsules is highly recommended.

- This supplement is not intended to treat, diagnose, prevent, or cure any diseases. Consult your healthcare provider before use if you have a medical condition or if you are taking any prescription medications.
- It is safe to stack Tongkat Ali with other non-hormonal supplements, so long as the amount consumed does not exceed the suggested serving size.
- The benefits of Tongkat Ali are most effective when they are supported by a healthy diet and plenty of exercise.

# Tongkat Ali Root Extract

