



Certificate of Analysis

47 W Polk St. STE 100-241
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Tongkat Ali Extract

Eurycoma Longifolia Root Extract

Material Lot #:	22121401	Test Date:	03-10-2023
Country of Origin:	China	Re-Test Date:	03-07-2026

Analysis	Claim	Result
Eurycomanone	≥10%	11.38%

Test	Specification	Result
Eurycomanone (HPLC)	≥10%	11.38%
Lead	≤1ppm	0.632 ppm
Mercury	≤0.8ppm	<0.005 ppm
Cadmium	≤0.8ppm	0.0289 ppm
Arsenic	≤1 ppm	0.170 ppm
Total Aerobic Plate Count	<1000 cfu/g	110 (est) cfu/g
Yeast	<100 cfu/g	<10 cfu/g
Moulds	<100 cfu/g	40 (est) cfu/g
Escherichia coli	<10 cfu/g	<10 cfu/g
Coliforms	<10 cfu/g	<10 cfu/g
Salmonella	Negative	Negative
Staphylococcus aureus	<10 cfu/g	<10 cfu/g

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

Tongkat Ali Extract



Main Benefits

- Tongkat Ali (Eurycoma longifolia, Long Jack, pasak bumi, Malaysian ginseng) is a plant endemic to South East Asia, with a long history of use in traditional medicine.
- It has a wide variety of uses, taken commonly for its perceived effect in maintaining healthy libido, virility, mood and confidence-enhancing effects
- The primary active compound in Tongkat Ali is Eurycomanone and its glycosides which are known for their bitterness.

Main Cautions

- Negative effects of larger-than-recommended servings may include insomnia, headaches, irritability, racing heart, heart palpitations, and restlessness.
- 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. Tongkat Ali 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 attributed 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.

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Synaptent

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ANALYTICAL REPORT

AR-23-QH-005453-01

Client Code: QH0000902

PO#: 22121401

Received On: 23Jan2023

Reported On: 28Jan2023

Synaptent

Quality Control Department (COA)
425 BARCLAY BOULEVARD
Lincolnshire, IL 60069

ANALYTICAL REPORT

AR-23-QH-005453-01

Client Code: QH0000902

PO#: 22121401

Received On: 23Jan2023

Reported On: 28Jan2023

Eurofins Sample Code: 477-2023-01230036	Sample Registration Date: 23Jan2023
Client Sample Code: 22121401	Condition Upon Receipt: acceptable, 16.1°C
Sample Description: Tongkat Ali Extract	Sample Reference:

FS001 - Heavy Metals (As, Cd, Hg, and Pb)	Reference AOAC 2011.19, 993.14 and 2015.01 (modified)	Accreditation	Completed 26Jan2023	Sub 1
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Parameter	Result
Arsenic	170 ppb
Cadmium	28.9 ppb
Lead	632 ppb
Mercury	<5.00 ppb

UM8VD - Total Coliforms - CMMEF Chapter 9.933	Reference CMMEF Chapter 9.933	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 24Jan2023
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Parameter	Result
Coliforms	< 10 cfu/g
Parameter	Result
Escherichia coli	< 10 cfu/g

UMDT - Salmonella species - AOAC-R1 121501	Reference AOAC-R1 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 24Jan2023
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Parameter	Result
Salmonella	Not Detected per 25 g

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 25Jan2023
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Parameter	Result
Staphylococcus aureus	< 10 cfu/g

Eurofins Sample Code: 477-2023-01230036	Sample Registration Date: 23Jan2023
Client Sample Code: 22121401	Condition Upon Receipt: acceptable, 16.1°C
Sample Description: Tongkat Ali Extract	Sample Reference:

UMIB1 - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 28Jan2023
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Parameter	Result
Yeast	< 10 cfu/g
Parameter	Result
Moulds	40 (est) cfu/g

UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72	Reference CMMEF Chapter 8.72	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 25Jan2023
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Parameter	Result
Aerobic Plate Count	110 (est) cfu/g

Subcontracting partners:
1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Christine Gwinn
Associate Technical Leader



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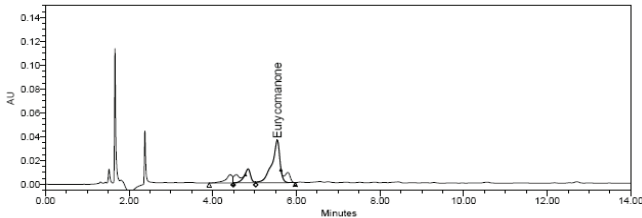
CERTIFICATE OF ANALYSIS



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Report Issued To: Synaptent 47 W. Polk St. ; 100-241 Chicago IL 60605-2000 USA	Sample Name: Tongkat Ali Extract Description: Powdered extract; Fine light yellow-brown powder Lot #: 22121401 AL #: 23024EVU_2 Analysis ID: 195881 Received: 01/24/23
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Determination of Eurycomanone Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Average Dried Basis (%)	Specification	Result
5.5	Eurycomanone	10.921	11.149	11.035	11.388	Report Only	N/A

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
HPLC Instrument: Alliance_5

Sample Preparation:
Weighed 50 mg sample into 25 mL volumetric flask 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 µm PTFE syringe filter.

Report Summary:
Conclusion: This "Tongkat Ali Extract" test sample contains an average 11% of Eurycomanone on the dried basis.
Loss on Drying: 3.10%
OOS Reference: N/A
Notebook Reference: 06823 Eurycomanone

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by Celine
Decasiano
Date: 2023.03.10
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Analysis Date : 03/10/23 Analyzed By: Z Herrera

Authorized By: Celine Decasiano,
Analytical Chemistry Supervisor

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