



## NATURAL HERBAL PRODUCTS

### Tongkat Ali (*Eurycoma longifolia*)



#### Androgen Hormones: Source of Men's Power

Androgen is the hormone that stimulates or controls the development and maintenance of male characteristics such as body hair, muscle mass and strength, enlargement of the penis, sperm production and so on.

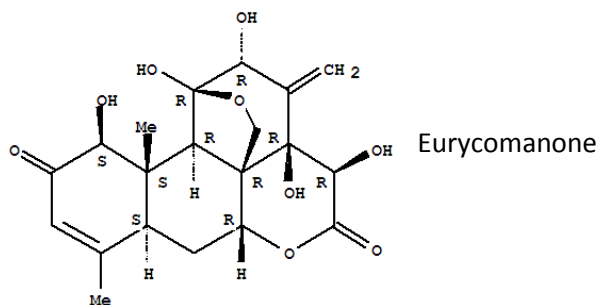
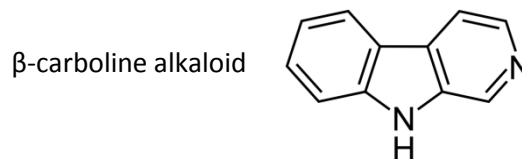
#### Chemical Constituents from *Eurycoma longifolia*

The main chemical constituents from *Eurycoma longifolia* are quassinoids such as Eurycomanone, alkaloids such as  $\beta$ -carboline alkaloid and others.

#### Boost your Hormones

Tongkat Ali (*Eurycoma longifolia*) is a Southeast Asia native herb. Traditional medicines use Tongkat Ali's root for compounding herbal remedies and for its properties that are able to reduce fever, act as an anti-malaria, rejuvenate, male enhancement and so on.

Many researches confirm that Tongkat Ali has properties of tonic and enhancing sexual performance by stimulating and maintaining testosterone levels, causing testosterone effects such as increased quality and quantity of sperm, increasing sexual desire, enhancing sexual performance, and preventing the loss of calcium in bones (Prevention of Osteoporosis)





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## Benefits

- Androgenic effect (aphrodisiac activity)
- Inducing penile erection and delays ejaculation
- Anti-proliferative activity
- Anti-tumor/cancer activity due to inducing apoptosis
- Anti-diabetic
- Antipyretic (reduce fever)
- Antimalarial (Plasmodium falciparum)
- Antibacterial

## Applications

For your convenience, we have Tongkat ali available in many forms to be used for various kinds of products such as dietary supplement, food & beverages and cosmetics.

- Dried slice
- Crude Powder
- Extract Liquid
- Extract Powder

## Quality Control

HPLC and TLC fingerprint are used for control the quality of extract.

## Dosage and Safety

- Maximum dose depends on each country's FDA restriction
- Use is not recommended for women under 25 years, who are diagnosed with Hypertension, tumors/cancer in Prostate and Benign Prostatic Hyperplasia (BPH)

## Packaging

Standard Package: Plastic vacuum bag  
Plastic gallon container

Packaging can be provided in a variety of container types, depending on customs requirements.

## Recommended Storage

Store in cool dry place, away from light, excessive heat or freezing temperatures

Shelf life: 2 years

## Documents

We provide copies of Specification Sheet, MSDS, Plant information and HPLC analysis report.





## NATURAL HERBAL PRODUCTS

### Tongkat Ali (*Eurycoma longifolia*) Dry Slice (non-sterile)

Specification Sheet	
<b>General information</b>	
Product name:	Tongkatali ( <i>Eurycoma longifolia</i> ) Dry Slice
Part of plant:	Root
Origin:	Thailand
<b>Physical analysis</b>	
Appearance:	Dry slice
Color:	White to yellowish
Odor:	Woody
Taste:	Bitter
<b>Active content analysis (Quantitative analysis)</b>	
Active compounds (mg/100g):	Eurycomanone not less than 10 mg.
<b>Heavy metal analysis</b>	
Arsenic:	< 0.5 ppm
Lead:	< 1 ppm
Cadmium:	< 0.5 ppm
Mercury:	< 0.5 ppm
<b>Pesticide residue analysis</b>	
Organochlorine group:	Not detected
Organophosphate group:	Not detected
Pyrethroid group:	Not detected
Carbamate group:	Not detected
<b>Microbiology analysis</b>	
Total aerobic plate count:	<10 <sup>6</sup> cfu/g
Yeast and Mold:	<10 <sup>3</sup> cfu /g
Clostridium pefringens:	<10 cfu /g
Escherichia coli:	<10 MPN/g
Coliforms:	<10 <sup>3</sup> MPN/g
Pseudomonas aeruginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	< 10 cfu/g
Streptococcus spp.:	Not detected

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## NATURAL HERBAL PRODUCTS

### Tongkat Ali (*Eurycoma longifolia*) Powder

Specification Sheet	
<b>General information</b>	
Product name:	Tongkatali ( <i>Eurycoma longifolia</i> ) Powder
Part of plant:	Root
Origin:	Thailand
<b>Physical analysis</b>	
Appearance:	Powder
Color:	White to yellowish
Odor:	Woody
Taste:	Bitter
<b>Active content analysis (Quantitative analysis)</b>	
Active compounds (mg/100g):	Eurycomanone not less than 10 mg.
<b>Heavy metal analysis</b>	
Arsenic:	< 0.5 ppm
Lead:	< 1 ppm
Cadmium:	< 0.5 ppm
Mercury:	< 0.5 ppm
<b>Pesticide residue analysis</b>	
Organochlorine group:	Not detected
Organophosphate group:	Not detected
Pyrethroid group:	Not detected
Carbamate group:	Not detected
<b>Microbiology analysis</b> (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	<10 <sup>4</sup> CFU/g
Yeast and Mold:	<100 CFU/g
Clostridium pefringens:	Not detected
Escherichia coli:	<3 MPN/g
Coliforms:	Not detected
Pseudomonas aeruginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	Not detected
Streptococcus spp.:	Not detected

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## NATURAL HERBAL PRODUCTS

### Tongkat Ali (*Eurycoma longifolia*) Extract Liquid

Specification Sheet	
<b>General information</b>	
Product name:	Tongkat Ali ( <i>Eurycoma longifolia</i> ) Extract Liquid
Part of plant:	Root
Origin:	Thailand
Extract ratio:	5:1
Method of extraction:	Maceration
<b>Physical analysis</b>	
Appearance:	Clear solution
Color:	Yellowish
Odor:	Woody
Taste:	Slightly bitter
<b>Active content analysis (Quantitative analysis)</b>	
Active compounds (mg/100mL):	Eurycomanone not less than 50 mg.
<b>Heavy metal analysis</b>	
Arsenic:	< 2 ppm
Lead:	<1 ppm
Cadmium:	Not detected
Mercury:	Not detected
<b>Microbiology analysis</b> (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	< 10 <sup>4</sup> CFU/mL
Yeast and Mold:	< 100 CFU/mL
Clostridium pefringens:	Not detected
Escherichia coli:	< 3 MPN/mL
Coliforms:	Not detected
Pseudomonas aeruginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	Not detected
Streptococcus spp.:	Not detected

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## NATURAL HERBAL PRODUCTS

### Tongkat Ali (*Eurycoma longifolia*) Extract Powder

Specification Sheet	
<b>General information</b>	
Product name:	Tongkatali ( <i>Eurycoma longifolia</i> ) Extract Powder SFE
Part of plant:	Root
Origin:	Thailand
Extract ratio:	20:1
Method of extraction:	Supercritical Fluid Extraction with CO <sub>2</sub>
Method of drying:	Spray Drying
<b>Physical analysis</b>	
Appearance:	Fine powder
Color:	Yellowish
Odor:	Woody
Taste:	Bitter
<b>Active content analysis (Quantitative analysis)</b>	
Active compounds (mg/100mL):	Eurycomanone not less than 500 mg.
<b>Heavy metal analysis</b>	
Arsenic:	<2 ppm
Lead:	<1 ppm
Cadmium:	Not detected
Mercury:	Not detected
<b>Microbiology analysis</b> (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	<10 <sup>3</sup> CFU/g
Yeast and Mold:	<100 CFU/g
Clostridium pefringens:	Not detected
Escherichia coli:	<3 MPN/g
Coliforms:	Not detected
Pseudomonas aeroginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	Not detected
Streptococcus spp.:	Not detected

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