

## TONGKAT ALI DOES NOT WORK THE SAME WAY AS OTHER APHORODISIACS

Tongkat Ali does not act in the same way as other claimed aphrodisiacs, which take effect immediately.

Tongkat Ali has to be consumed regularly over time. The mode and mechanism of actions are different.

Tongkat Ali acts through the enhancement of testosterone and also c-GMP production. As it enhances the synthesis of the hormone it takes a longer time period to exert its effects. The benefits are felt gradually after a period of time. **Optimal effectiveness should be felt within a week of continuous uninterrupted use. When the testosterone level increases, the health and vitality are restored.**

Tongkat Ali water-soluble extract is not a stimulant. Aphrodisiac effects of Tongkat Ali varied depending on the lifestyle and also the physical and physiological state of the individuals.



Laras™ Euryco Extract Capsules Using Standardized Tongkat Ali Extract

## CANCER CELLS INHIBITOR

Researchers in America and Japan reported that some plant chemicals in the group of quassinoid and alkaloids found in Tongkat Ali have the effect of inhibiting the growth of cancer cells in animals in laboratory experiments. Examples of the chemical cells are breast cancer cells, colon cancer cells and leukemia.

## ANTI-FEVER EFFECT

In 1995, it was reported that the quassinoid extracted from Tongkat Ali has an anti-fever effect. From this experiment, the quassinoid was 2 times more effective than aspirin.

## ANTI-MALARIAL EFFECT

Studies on the biological effects of Tongkat Ali began in the 1980s. Studies showed that the roots of Tongkat Ali have a group of plant chemicals called quassinoid alkaloid and peptide that has the property to kill malaria parasites.

## ANTI-OXIDANT PROPERTIES

Studies conducted by the Forest Research Institute Malaysia (FRIM) as well as the department of Bio-medical Science, Universiti Kebangsaan Malaysia (UKM) discovered that **Tongkat Ali contains SOD (Superoxide dismutase), a kind of anti-oxidant enzyme. The studies showed that Tongkat Ali inhibited the chain reaction of radicals that can be harmful to the body system.**

## QUALITY OF TONGKAT ALI EXTRACT

Most, if not all, Tongkat Ali products available in the market today are pulverized (sawdust) root. Until they are scientifically analyzed in the laboratory, there is no way to verify which plant roots or plant parts are being used. Besides, the raw roots are fungus-prone. Unless stringently quality controlled, even grounded root powder in capsules can deteriorate over time and are subject to attack from fungi and microorganisms, which could cause toxic and side effects over long term usage.

Tongkat Ali is now made available using the latest scientific techniques and the highest quality-controlled methods of extraction. The best quality is from a product with 100% pure Tongkat Ali water-soluble extract, scientifically processed and encapsulated.

Tongkat Ali water-soluble extract is superior in efficacy and quality. The dosage is standardized and the formulation is based on pharmacokinetic studies and observations, to ensure its effectiveness, safety and efficacy.

Scientists and researchers have shown that the water-soluble extract is very safe and non-toxic, even at relatively high dosage.

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TONGKAT ALI

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## EURYCOMA LONGIFOLIA JACK OR "TONGKAT ALI"



Eurycoma longifolia Jack or Tongkat Ali plant

For decades, the indigenous populations of South East Asia have been using Eurycoma longifolia for its high medicinal value. How the concoction worked for them is difficult to explain, but many swear by its close to supernatural benefits.

In Malaysia, the plant is better known as "Tongkat Ali" which literally means "Ali's walking stick". Traditionally, it is valued for its aphrodisiac properties and treatment of diverse ailments ranging from cuts and wounds, skin infection, fever, malaria, high-blood pressure, diabetes to increased energy and stamina

## SCIENTIFIC RESEARCH

As early as 1968, scientific research was conducted on Eurycoma longifolia (Tongkat Ali). At that time, the scientists were looking for natural chemicals and have identified the following phytochemical components extractable into the organic solvent, such as methanol, dichloromethane or chloroform:

Terpenoids, stigmasterol, sitosterol, sterol, saponins, quassinoid, campesterol, benzoquinones, alkaloid, scopoletin, piscidinol, nilocitin, methoxycantin-one-oxide, methoxycantin-one, meliane, longilene, longilactone A and B, hydroxyeurycomalactone, hydroxycantin-one-oxide, hydroxycantine-one, hydroxydehydro eurycomalactone, hispidone, eurylene, durylactone, eurycomanone, eurycomanol-D-glycopyranoside, eurycomanol, eurycomalactone, epispinin, dihydroxyklaineone, dihydroxyeurycomanone, dihydroxyeurycomalactone etc.

The water-soluble extract contains mainly phenolic components, tannins, high molecular weight polysaccharide, glycoprotein and mucopolysaccharides. It is believed that these water-soluble components are biologically active in rendering some of the observed properties. Currently, these components are being characterized and intensive studies on the properties of these components are being vigorously examined by Malaysian, Japanese and American scientists.

## APHRODISIAC VALUE

### MORE THAN JUST AN APHORODISIACS!

Since 1994, different authorities have carried out various scientific experiments on the aphrodisiac properties of Tongkat Ali. The School of Pharmaceutical Science, University Science Malaysia [Ref. Biological & Pharmaceutical Bulletin 21(2) 1998 153-155; Archives of Pharmacol Research (Seoul), 20(6). 1997. 656-658; International Journal of Pharmacognosy, 35(2). 1997. 144-46; Experimental Animals (Tokyo), 46(4). 1997. 287-90]; reported that, in the test carried out in the laboratory, the extract of Tongkat Ali has aphrodisiac effect in the experiment on animals. **It increased the number of times and length of the sexual performance of the animal under study.**

More reports about the biological properties of the water-soluble extract were reported in: Prosiding Seminar Sebastian Kimia Semulajadi Ke-13 FRIM 1997; 22nd Malaysian Biochemistry and Molecular Biology Society Conference 1997; Prosiding Konvensyen Kebangsaan Tumbuhan Ubatan FRIM 1995; Proceeding 19th Malaysian Biochemistry and Molecular Biology Society Conference 1994 and some other publications.

Experiments carried out by team of scientist in the University of Malaya showed the water-soluble extracts from Tongkat Ali have the following effects:

- ◆ In vitro tests on human testicular tissue homogenates showed **Tongkat Ali water-soluble extract increased the formation of testosterone (male sex hormones) by 4.4 fold.**
- ◆ Studies conducted on animals showed **significant changes in the male:female ratio of the offspring, i.e. 3:1 ratio** in the treated group compared to 1:1 ratio in the untreated group.
- ◆ Experiments conducted also showed that **the water-soluble extract has the ability to increase the sperm concentration, percentage of progressive sperm and the mobility rate.** The results obtained suggest that **Tongkat Ali water-soluble extract could increase the quality and the quantity of the sperm, and therefore, increase the fertility rate.**
- ◆ **Tongkat Ali water-soluble extract has the potential of increasing fertility and also helps increase the litter size.**



Tongkat Ali not just a root

## FACTS MEN NEED TO KNOW ABOUT THEIR MALE HORMONE: TESTOSTERONE

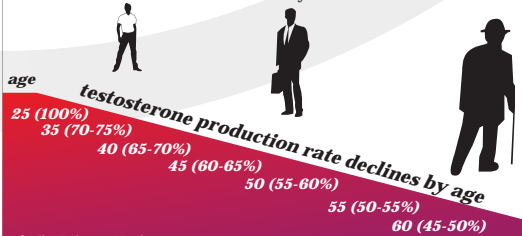
### FUNCTION

Testosterone is the most important representative of the male sex hormones collectively known as androgens produced by gonads. Its secretion stimulates the differentiation of the male reproductive tract in the embryo, the descent of the testes into scrotum, the further development of the reproductive tract and penis during puberty and maturation of then sperm. It is also responsible for the development of male secondary sex characteristics such as moustache, beard, enlargement of the larynx (deep voice) and increase production of the sebaceous glands, all of which are associated with masculine features. Testosterone also plays a role in the development and maintenance of male libido (sexual desire) and sexual behavior.

Testosterone have other "non sexual" roles: it serves the important function for protein biosynthesis in accelerating muscle build-up, increases the formation of red blood cells, speed up regeneration and recovery time after illness or injury. It stimulates the entire metabolic activity especially in the energy metabolic pathways and burning of body fat.

## TESTOSTERONE LEVELS DECLINE WITH AGE

If you ask any elderly men about their endurance and sexual desire - the answer would be non-affirmative. What is the cause? Aging? The answer is definite "Yes"! But how is aging responsible for this syndrome? The answer lies in the testosterone level, which declines with age. Research shows that during puberty, its level is peaking. Its level is at their lifetime peak at the age of 25, and steadily decrease with age. Some clinical studies indicate that generally on average, testosterone levels drop as much as 2% on yearly basis after the age of thirty. The rate of decline is very much a factor of lifestyle. Individuals who exercise regularly have much slower rate of decline. This is due to exercise to a certain extent stimulates the hormone secretion. A more prominent decline was observed in individuals who are heavy smokers and alcoholic.



ref: J.Clin. Endocrin. Metab. 1983; 56: 1278-81  
J.Clin. Endocrin. Metab. 1991; Vol.73, No.5: 1016-25