



Yesterday's traditional wisdom,

**TOMORROW'S INNOVATIVE
HEALTH SOLUTIONS**

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Introduction to Biotropics



Biotropics Malaysia was incorporated in February 2007. Its mission is to develop Malaysian bio-resources into superior natural products for local and international markets.

Drawing inspiration from traditional medicine, Biotropics infuses modern science to develop herbal ingredients for commercial applications. All products are made using state-of-the-art herbal extraction methods in Biotropics' in-house manufacturing facility. These products are also scientifically-tested and verified through in-depth research activities to meet the highest quality, safety and efficacy standards.

Biotropics works closely with Malaysian government agencies including Ministry of Agriculture and Food Industries (MAFI), Ministry of International Trade & Industry (MITI), Ministry of Science, Technology and Innovation (MOSTI), Ministry of Health of Malaysia (MOH), Ministry of Energy and Natural Resources (MNRE), Malaysian Agricultural Research and Development Institute (MARDI), Forest Research Institute of Malaysia (FRIM), Institute of Medical Research (IMR), Standards and Industrial Research Institute of Malaysia (SIRIM), Forestry Department of Malaysia, and the indigenous people of Malaysia (orang asli).

Biotropics is committed to the health and sustainability of Malaysia's natural resources and has vital interest in the long-term protection of Tongkat Ali (*Eurycoma longifolia*). Sustainability is built in the way we conduct our business, as well as in the way we treat and manage our resources, people, partners, suppliers, supplies and the environment we work in. It is an on-going process and we will continuously monitor sourcing and market trends for Tongkat Ali, and work closely with our stakeholders that are also dedicated to the protection of our natural resources.

Vision and Mission



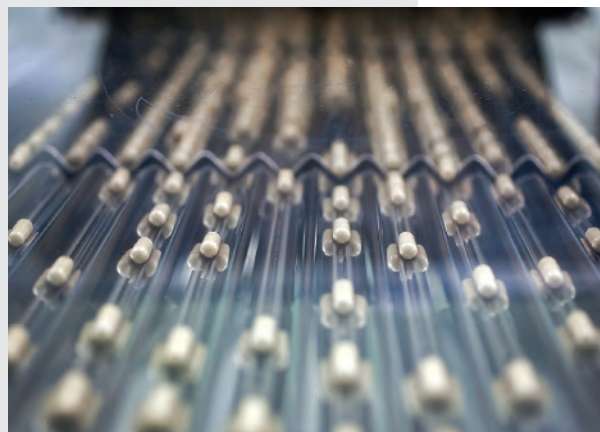
Biotropics Malaysia Berhad, a global innovator of herbal products.



To develop and commercialize Malaysia's herbs as health products for global markets.



Yesterday's traditional wisdom,
Tomorrow's innovative health solutions



Manufacturing Standards

Biotropics uses state-of-the-art extraction and drying technologies sourced from Malaysia, Germany and the US to maintain the quality, purity and consistency of its standardized extracts.

Biotropics' Good Manufacturing Practices (GMP) manufacturing facility is licensed by the Ministry of Health Malaysia and Lloyd's Register standards. It is custom designed and fully equipped with high speed encapsulation, blister packing, bottling line, labeling and cartoning machines, all to assure the highest product quality and consistency.

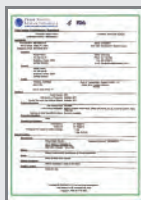
Accreditation and Certification by:

- Good Manufacturing Practice (GMP)
- Good Hygiene Practice (2020)
- ISO 22000:2018
- USFDA Inspected
- Halal, JAKIM (MS1500:2019 and MS2424:2019)
- Kosher, Baddatz Igul Rabbonim
- Malaysian Standard (MS 2409:2011)
- Hazard Analysis and Critical Control Points (HACCP)
- National Nutritional Foods Association
- American Botanical Council (ABC) Member, Official Adopter of "Tongkat Ali" and "Kesum"
- American Herbal Products Association (AHPA)

International Certificates



American Botanical Council Member, Official Adopter of "Tongkat Ali" and "Kesum"



AHPA, American Herbal Products Association



USFDA Inspected



National Nutritional Foods Association

Quality Matters

Biotropics places great emphasis on quality control in all of its extraction processes, research, product development and manufacturing activities, thus ensuring that its products are always at their highest quality. All incoming raw materials and extracts are analysed for authenticity and purity as well as tested for heavy metals, pesticides, aflatoxins and microbial levels to comply with world best standards. Continuous monitoring is conducted throughout all stages of processing and manufacturing based on international standards and validated testing methods.



Malaysian Standard



GMP



ISO 22000:2018



Halal, JAKIM



Kosher Certified

Research & Development

Science & Research



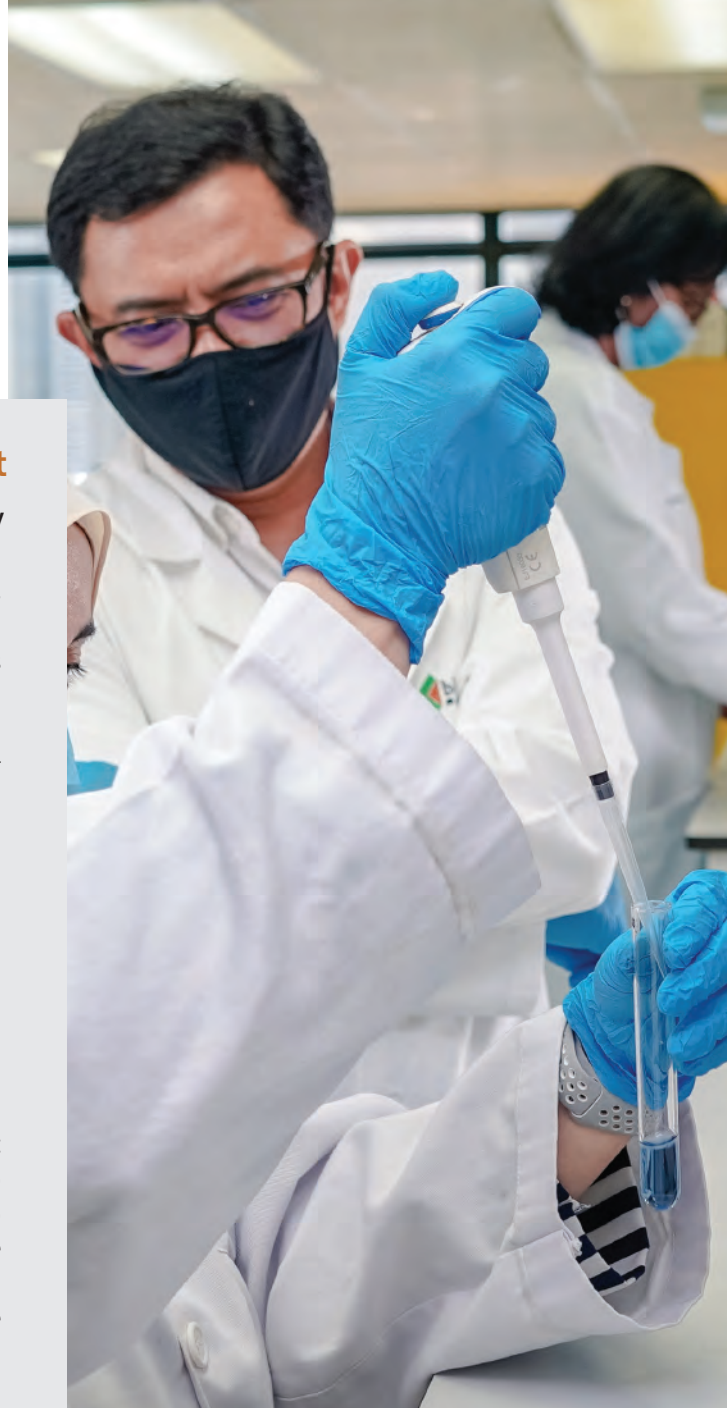
- Chemical and biological screening of more than 200 herbs
- Intellectual Properties - 70 patents filed globally
- Development of product concepts, formulations and pilot productions for extract optimization
- Scientific validation: Proof-of-Concept studies (in vitro, in vivo), human and animal trials (safety & efficacy)
- More than 50 publications: 39 scientific journals, proceedings, posters and magazines

R&D Lab



- Test method development and validation
- Compound screening - analysis of new material
- Standardization
- Process optimization
- Stability studies – determining the shelf-life of ingredients and products
- Authentication of incoming raw material
- Quality control – routine monitoring





Science & Product Development

Biotropics' Research & Development Laboratory

Develops methods for herbal extraction, oversees scaling up and standardization works as well as routine quality testing and research activities. The in-house lab equipment includes GCMS (Gas Chromatography-Mass Spectroscopy), HPLC (High-Performance Liquid Chromatography), HPTLC (High Performance Thin-Layer Chromatography) and FTNIR (Fourier-Transform Near-Infrared) spectroscopy.

The Product Development Department

Manages toxicology and pre-clinical studies, extract development, product formulation, and product concepts/prototypes.

The Science Department

Oversees the management of scientific information and conduct of clinical trials to provide validated scientific proof needed to support product safety and efficacy. To date Biotropics has more than 50 studies, which include more than 20 Good Clinical Practice (GCP)-compliant clinical studies and Good Laboratory Practice (GLP)-compliant pre-clinical studies, that ensures quality data and study representation.

Scientific Community

In addition to our in-house scientific expertise, Biotropics confers with Key Opinion Leaders, scientists and researchers from esteemed universities and contract research organizations around the world. This community has been instrumental in developing new standards, procedures, protocols and testing methodologies used by Biotropics.



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Researched Worldwide

Physta® Scientifically Validated – Safe & Efficacious

Physta® is clinically researched and carries an extensive list of research papers written, with 21 papers published. This scientific validation is the result of collaborations with established local and international universities, clinical research organizations (CROs) and members of Biotropics' scientific community.



TONGKAT ALI

GIFT FROM
MOTHER NATURE



About Tongkat Ali



Tongkat Ali (scientific name: *Eurycoma longifolia*), also known as Malaysian Ginseng or Long Jack, is a tropical tree mostly found in Malaysia and nearby regions. Malaysian Tongkat Ali is unique compared to sources from other countries due to the soil conditions, climate and environment of the Malaysian Rainforest.

For centuries, Tongkat Ali has been used traditionally to enhance libido, improve fertility, provide lasting energy, as well as treat fever and other mild maladies. The myth of Tongkat Ali is that it is only about a person's manhood.

Through the efforts of Biotropics, much of the tradition and myth surrounding Tongkat Ali has been explored with the use of scientific methods. With years of experience, Biotropics now offers the world the wealth of Tongkat Ali based on tradition, science and quality.



Our Products

Performance Ingredients



A Patented Standardized Tongkat Ali Root Extract

Physta® is Biotropics' brand of Tongkat Ali root extract. It is produced using proprietary and patented extraction methods, and validated by scientific studies. This extract contains numerous phenolic compounds, tannins, high molecular weight polysaccharides, glycoproteins and mucopolysaccharides which are responsible for the observed testosterone boosting and health properties.

Premium Characteristics

Patented through Breakthrough Discovery

Physta® is extracted from the roots of Tongkat Ali using patented extraction technology which was developed through the collaborative work between the Malaysian government and the renowned Massachusetts Institute of Technology (MIT). Physta® has been shown to increase testosterone synthesis, testosterone release from cells, sperm count, sperm motility, immunity and dengue.



Malaysia Patent



US Patent



Europe Patent



Japan Patent



Philippines Patent

Reliable, Consistent, Established

Physta®'s standardization is based on four characteristic compounds (Eurycomanone, total protein, total polysaccharide, and glycosaponin) to ensure consistency of quality and purity.

Scientifically Validated – Safe & Efficacious

Physta® carries an extensive list of safety and toxicology studies and is clinically researched by industry and academic experts including Biotropics' Scientific Community to provide high quality scientific validation.



Physta® Scientific Studies – Benefits

- Support testosterone levels
- Men and Women's Health – promoting vitality and wellbeing
- Improve sexual and reproductive health (fertility)
- Promote healthy ageing
- Immunity
- Improve mood and reduce stress
- For sports performance - strength & recovery, non doping effect
- Antiviral effects (tested for dengue)
- Kidney protection

Our other clinically-researched ingredients

BIOKESUM

- Anti-aging
- Cognition
- Memory

SLP+

- Women's health
- Hormonal balance
- Reduce menopausal symptoms

PhyllPRO

- Liver health
- Hangover recovery

avco

- Anti-microbial
- Anti-dandruff
- Anti-acne

Find out more regarding Performance Ingredients



Our Products

Health Supplements

nu-prep®



Nu-Prep® Lelaki & Wanita contains the natural extract of Tongkat Ali root (Physta®), and is water soluble to enable effective absorption by the body. Nu-Prep® induces an increase of energy and stamina to overcome daily challenges and fatigue, and improve blood circulation. Satisfied consumers of Nu-Prep® come from various walks of life, such as athletes, students, seniors, professionals, and more.

Nu-Prep® is Malaysia's best-selling health supplements for men and women.

Benefits

- Increased energy levels
- Enhance health & vitality
- Athletic performance & stamina
- Supports healthy immunity
- Rich in antioxidant properties
- Promotes healthy aging
- Increase muscle mass and recovery
- Reduces stress



Other Products

Our range of health products incorporate the core Biotropics ingredients to provide solutions for various health concerns such as sexual health (Men's Formula and Tenaga range), Women's Health (Nu-Femme and Asmara range).

Ready-to-launch private labels products (OEM/ODM) are also available to serve the local and international markets.

Find out more OEM+



Our Markets



Biotropics' products have been sold to 35 countries worldwide. We adhere to international export standards, and have been recognized for our efforts at the Export Excellence Awards.



<https://www.biotropicsmalaysia.com/business/business-overview>



Activities & Gallery



▲ Biotropics with Founder of American Botanical Council, Mark Blumenthal



▲ Fox News (USA) interview with Chris Kilham - South Asian Herb (BioKesum®) or smart weed



▲ Biotropics at Natural Product Expo West, California USA



▲ Biotropics as underwriters for Sustainability Programme under American Botanical Council



▲ Physta® featured on Dr. Oz Show with Dr. Shawn Talbott

Activities & Gallery



▲ Dr. Annie George attending Health Ingredients (HI) Japan

▼ Physta® Tongkat Ali selected as "Success Story for the Anti-Ageing Category" at Vitafoods Europe



▲ Official visits with Ambassador of Guinea to Malaysia at The Guinean Embassy, Kuala Lumpur



▲ Biotropics with customers at Arab Health Exhibition Dubai



▲ Biotropics' Virtual Health Talk for Africa region with MATRADE

Activities & Gallery



▲ Canton Fair, China - Malaysia Pavilion opening ceremony

▼ Canton Fair, China - MoU signing with customers



▲ Interview with CCTV America

▼ Virtual event for China Alibaba/Tmall buyers



Activities & Gallery



▲ Replanting Tongkat Ali with Orang Asli community

▼ MAFI Minister Dato Sri Ahmad Shabery Cheek visit to Biotropics



▲ Chris Kilham, Medicine Hunter - Documentary on BioKesum® with Traditional Practitioner



▲ Export Excellence Awards

▼ BrandLaureate World Halal BestBrands Awards



Contact Us

Market Opportunity

Biotropics works closely with partners who want to develop innovative products. In such collaborations, Biotropics will provide scientific, technical and regulatory support for our partners.



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