Research

Assoc. Prof. Dr. Jaya Vejayan produces Bio-Root Tok Ali capsules

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A lecturer from the Faculty of Industrial Sciences and Technology (FSTI), Universiti Malaysia Pahang (UMP), Associate Professor Dr. Jaya Vejayan a/l Palliah, 49, has been producing Bio-Root Tok Ali herbal capsules to boost stamina and fitness for men.

Bio-Root Tok Ali is a herbal capsule with two active ingredients from the roots of white Tongkat Ali (*Eurycoma longifolia*) and black Tongkat Ali (*Polyalthia bullata*).

According to Associate Professor Dr. Jaya, the special about this product is in the active ingredients. Normally, products in the market contain one type of Tongkat Ali.

“This research started when I worked in the Forest Research Institute Malaysia (FRIM) since 2007.

“Since then, I have been actively studying Tongkat Ali and have published several journal articles.

“The idea to produce Bio-Root Tok Ali capsules sparked in 2014. It focused on detecting Tongkat Ali-based products in the market whether they are authentic or a mere marketing ploy by the manufacturers of herbal products.

“At that time, we developed a test method that can identify the presence of Tongkat Ali in capsules, pills, traditional supplements, premixed coffee and others,” he said.

“It can determine the authenticity of Tongkat Ali products. The test conducted on 50 Tongkat Ali products obtained from various sources shows that only half were proven authentic.

“This situation concerned a group of UMP scientists and we are determined to produce pure Tongkat Ali products with the aid from the Orang Asli,” he said.

He added that was the starting point of producing capsules and the products are now are already on the market.

“In the beginning, this research involved several scientists including the late Professor Dato’ Dr. Mashitah Mohd Yusoff (FSTI), Dr. Aini Norhidayah (FSTI) and Associate Professor Dr. Hasan Ahmad (Centre for Human Sciences).

“Now, I only collaborated with Associate Professor Dr. Hasan Ahmad.

“This product is believed to contain active ingredients that are capable of exciting the body of a man to increase the production of testosterone.

“Naturally, a man will have a normal level of this hormone. However, it gradually reduces as he grows older,” he said.

Associate Professor Dr. Jaya added, testosterone deficiency will reach a critical point at the age of 40.

“This hormone is important for the health and stamina of men.

“In fact, this hormone can also make a person stay energised, reduce fat and increase muscle dimension.

“As we grow older, energy will reduce and body physique tends towards obesity,” he said.

He said doctors can detect the hormone level using diagnostic test and if the level is low, they can prescribe medication to increase to the normal level.

“For those who prefer a natural way without unwanted effects can use herbs such as Tongkat Ali.

“These herbal capsules are produced to enable scientific research with firm preclinical evidence to be developed so that they become a herbal product classification registered with the National Pharmaceutical Regulatory Agency under the Ministry of Health (MOH).

“We also want to ensure the sales of genuine and effective products to consumers.

“It can also become a source of income generation for the university and Orang Asli as the community authorised to find Tongkat Ali in the forest legally,” said this Penangite.

Now, he secured a grant to isolate active ingredients from contaminants to upgrade the herbal capsules to a pharmaceutical drug as a supplement clear about its dosage and safe from side effects.

“The promotion and sales of Bio-Root Tok Ali capsules are assisted by UMP Technology Sdn. Bhd.

“Through this joint effort, in January 2021, this product managed to get the highest sale of 100 bottles.

“The selling price for a bottle of 60 capsules is RM79.00. This includes shipping cost.

“If the purchase is made in cash without delivery, the price is lower at RM69.00 only,” he said.

This research won gold medals in ITEX20, CITReX 2020, CITReX 2107 and AiNEX 2017.

This product has been developed via MTUN grant UIC191201, Product Development Grant PDU203209 and patented by the title

Method for Isolating Glycosylated Proteins from Extract of *Eurycoma longifolia* (Tongkat Ali) (PI 2020005773).

He added that a product will be launched in the future called Men Hormone Generator (MHG).

“MHG contains active ingredients proven to increase testosterone.

“Another product is Nina Square Root Tongkat Ali capsules (260 mg) which contains white Tongkat Ali only,” he said, who has expertise in proteomics/natural products.

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