



Toyo Bio-Pharma™

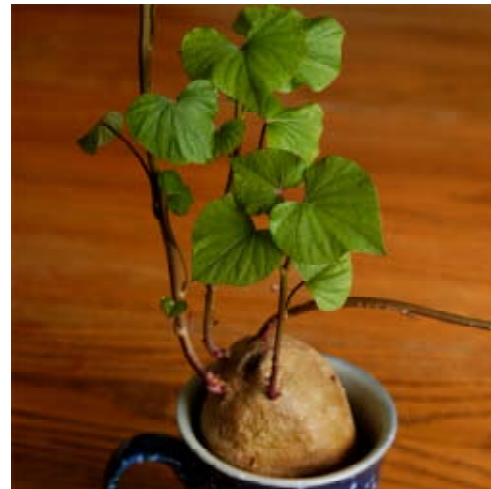
Toyo-KanSho™, Natural maintenance of blood glucose levels*

Indigenous to the tropical Americas, the leading grower of sweet potatoes is now China. Around the world, *Ipomoea batatas* is primarily appreciated for its nutritious root crop. The stems and leaves of this plant are frequently overlooked. However, in Asia, the sweet potato greens are often served along with the starchy root.

While the sweet potatoes themselves do boast high nutritional value, the leafy greens are what possess the most benefits for health-conscious consumers. The sweet potato leaf powder, Toyo-KanSho™, contains more calcium, vitamin C and vitamin K than spinach. Among nutritional supplements, Toyo-KanSho stands out with its high polyphenol content and strong antioxidant activity.

The sweet potato plants, from which Toyo-KanSho is derived, are grown in Kyushu, the southernmost island of Japan. Sweet potatoes were originally introduced to Japan as a storage crop in 1500 A.D. The incredible value of the leaf of the plant as a nutritional supplement is a more recent discovery. Toyo Bio-Pharma™ first introduced Toyo-KanSho four years ago. New enough to the market to be a highly competitive offering, it is also well-researched and has some well-validated benefits.

Derived from the leaves and stems of the plant, the polyphenol profile of Toyo-KanSho includes dicaffeoyl quinic acid (diCQA), tricaffeoyl quinic acid (triCQA) and chlorogenic acid (ChA), which is a combination of caffeic acid (CA) and quinic acid (QA). Present research focuses on Toyo-KanSho's ability to maintain both healthy blood pressure and blood glucose levels already within the normal range, as well as promoting liver health.*



Containing more calcium, vitamin C and vitamin K than spinach, it also stands out with its strong antioxidant activity.



Maintain healthy blood glucose levels already within the normal range*

Toyo-KanSho young sweet potato leaf powder has been shown in both human and animal studies to be effective in promoting healthy blood glucose levels. In one human study, Toyo-KanSho maintained healthy blood glucose levels when compared to the control group. An animal study utilizing rats with inhibited insulin-secretion, showed evidence that Toyo-KanSho is more effective than guava leaf extract in promoting healthy blood glucose levels after only seven days.

Initial research shows positive potential for using Toyo-KanSho in a comprehensive management plan for maintaining healthy blood glucose levels.*

Promote Liver Health*

Fat accumulation in the liver, commonly referred to as fatty liver, is often associated with weight gain or excessive alcohol intake. A healthy liver does contain some fat cells, but an overly fatty liver can hinder liver function.

In one *in vitro* study, human HepG2 cells were incubated in media containing oleic acid, and varying dosage amounts of sweet potato powder were administered. A significant dose-related regulation of increasing triglyceride levels was observed.

In another study, 5-week old male SD rats were fed a high-fat, high-cholesterol diet to promote fat accumulation in the liver. Rats that were also supplemented with Toyo-KanSho powder showed a significant regulation in both the increasing cholesterol and triglyceride levels when compared to a control group.

Healthy blood pressure already within the normal range*

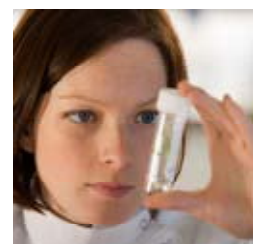
The high polyphenol content of Toyo-KanSho may hold a key to promoting healthy blood pressure. An *in vitro* study showed that the caffeic acid derivatives within the sweet potato leaves' polyphenol profile, have a regulatory effect on angiotensin-converting enzyme (ACE). In an animal study using rats that had spontaneous hypertension, administration of Toyo-KanSho resulted in a dose-related regulatory effect on blood pressure elevation.

Manufacturing & Safety

Toyo Bio-Pharma assists manufacturers to determine the most appropriate form for the final product. A state-of-the-art integrated manufacturing process follows the product from the harvesting of the raw material to the final packaging; ensuring clients receive the highest quality product.

The recommended dose for maintaining healthy blood glucose levels is 500mg, three times a day with meals. Multiple human clinical trials and animal studies have shown Toyo-KanSho sweet potato leaf to be safe and effective.

Women who are pregnant or nursing and those less than 18 years of age should consult with a physician



The Company

Toyo Bio-Pharma has tremendous capacity and expertise in manufacturing custom formulations, conducting laboratory tests and validating results. Toyo Bio-Pharma is Japan's largest developer and OEM producer of raw materials for food supplements. Competitive and research driven, they sell more FOSHU products than any other company worldwide. As such, Toyo Bio-Pharma is ideally situated to work with clients on a contract basis, and has proven formulas that the company is willing to share for mutual success in advancing new markets.

The company follows the rigorous standards of ISO 9001:2000 and is GMP (FDA's Good Manufacturing Practices) compliant for food products. The FOSHU application, as well as several Japanese patent applications, is now underway for Toyo-KanSho.

Primary Benefits of Young Sweet Potato Leaf as Studied by Toyo Bio-Pharma:

Natural maintenance of healthy blood glucose levels already within the normal range*

Promotion of healthy blood pressure already within the normal range*

Regulation of fat accumulation in liver*



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*** These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.**