About GI-ProBalance™ Slimsticks

Insights from Mannatech’s R&D Department

What Are GI-ProBalance Slimsticks?
A synbiotic dietary supplement, GI-ProBalance slimsticks contain a mixture of probiotic bacteria and prebiotics that can positively affect health by improving the survival and growth of beneficial bacteria in the gastrointestinal (GI) tract.*

Prebiotics are live bacteria that, when consumed in adequate amounts, help promote GI health, aid digestion and assist in nutrient absorption. Prebiotics are nondigestible food ingredients, typically complex carbohydrates or saccharides, which provide nutrients to help support the growth and metabolism of beneficial bacteria in the colon. A synbiotic is a product that contains a synergistic blend of probiotics and prebiotics; the prebiotics selectively support the growth of the probiotic bacteria. Each GI-ProBalance slimstick, which contains 15 billion colony forming units (CFU) of probiotic bacteria at time of manufacture (at least 1.5 billion CFU guaranteed at the time of expiration), consists of the species *Bifidobacterium longum, B. breve, Lactobacillus acidophilus, L. rhamnosus, L. plantarum and Streptococcus thermophilus*. GI-ProBalance slimsticks include the prebiotics fructo-oligosaccharides and gum acacia.

Why Are Intestinal Bacteria Important?
There are at least 10 times more bacteria in the human gut than there are individual cells that make up the human body. That’s more than $10^{14}$ bacteria comprising over 500 different species. Certain species, mainly belonging to the genera *Bifidobacterium* or *Lactobacillus*, are beneficial, or “friendly,” bacteria, because they promote gastrointestinal health. With over 70% of immune cells located in the digestive tract, a healthy gut can also help maintain a healthy immune system. Unfortunately, a number of factors can result in an imbalance of beneficial bacteria such as stress, aging and consumption of an unhealthy diet that is low in fiber and high in fat. Daily supplementation with GI-ProBalance slimsticks can help normalize the delicate balance of intestinal bacteria required to keep your digestive tract healthy, which in turn can help keep your whole body healthy.*

What Safety Information Is Available for GI-ProBalance Slimsticks?
Probiotics and prebiotics, in general, are regarded as safe for healthy individuals, with very few adverse effects reported. *S. thermophilus* is an ingredient found in yogurt. Each species of lactobacilli and bifidobacteria in GI-ProBalance slimsticks is naturally found in the human GI tract. In the thousands of human and animal studies looking at the effects of lactobacilli and bifidobacteria, no serious adverse reactions have been associated with consumption of these bacteria.

Why Does Mannatech Recommend that Ambrotose® Products Be Taken with GI-ProBalance Slimsticks?
GI-ProBalance slimsticks were designed to enhance the effectiveness of Ambrotose products. Ambrotose complex and Advanced Ambrotose® products contain plant polysaccharides that have been shown to have probiotic effects. In a state-of-the-art simulation of the human gastrointestinal tract, Ambrotose products were fermented by colonic bacteria and helped promote growth of the beneficial bifidobacteria (1). Additional *in vitro* studies suggest the arabinogalactan in Ambrotose products may be broken down and utilized by specific species of bacteria found in GI-ProBalance slimsticks, *Lactobacillus plantarum* and *Bifidobacterium longum* (2;3). Together, these studies suggest an additive effect when consuming GI-ProBalance slimsticks with Ambrotose products, resulting in enhanced health benefits from both products.*

**Reference List**

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

1 These studies were completely or partially funded by Mannatech, Incorporated.
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