



Probiotic 225 Billion

- Accelerates the Proliferation of Healthy Intestinal Microflora
- Promotes a Rapid Immune Response
- Maintains Normal Inflammatory Balance

GASTROINTESTINAL SUPPORT

Probiotic 225 Billion is a maximum-strength probiotic for cases of acute gastrointestinal (GI) and immune challenges. Going beyond the threshold of traditional probiotic support, high-dose probiotics influence gut health and immunity in ways lower-dose probiotics cannot. Shown to activate over 1,700 genes involved in immune and inflammatory signaling, high-dose probiotics support a healthy, balanced immune response. Delivering 225 billion active probiotic cultures per packet, this product creates a rapid response to reset the immune system and maintain normal inflammatory balance. Each convenient, single serving packet provides six proven strains chosen for their ability to survive the harsh GI environment and deliver superior results.

Overview

The GI tract is a finely balanced environment where roughly 500 different strains of bacteria compete for space and nutrients. When there is a healthy balance (eubiosis), few symptoms exist. However, dysbiosis can occur when an overabundance of potentially harmful organisms prevail. The natural microflora balance can become disrupted by certain medications, excessive alcohol consumption, or poor dietary intake.

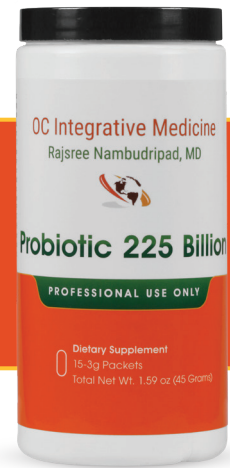
Probiotics have been extensively studied and are characterized as having broad GI and immune benefits, including (1) increasing the population of healthy bacteria following microflora imbalance; (2) supporting healthy bowel function; (3) increasing the production of short-chain fatty acids, which provide energy to the cells of the intestinal lining; (4) strengthening the gut-immune barrier by promoting a healthy

gut mucosa; (5) aiding in the digestion of difficult-to-break-down compounds like lactose and casein; and (6) enhancing detoxification of harmful compounds.

Because probiotics are live organisms, there are many challenges associated with manufacturing and distributing probiotic supplements. For a probiotic to be effective, it must be shelf-stable through the expiration date and precisely delivered to the intestinal tract, where it can have maximum benefit. The microorganisms in this product are protected, sealed, and freeze dried away from moisture, heat, light and oxygen. This allows the bacteria to remain dormant until they are exposed to moisture in the GI tract.

***Lactobacillus acidophilus* (La-14)[†]**

Lactobacillus acidophilus is a beneficial bacteria strain that is normally found in the intestinal tract and mouth, and is commercially used in dairy products for the production of acidophilus-type yogurt. *L. acidophilus* ferments various carbohydrates to produce lactic acid, which increases the absorption and bioavailability of minerals, including calcium, copper, magnesium and manganese. The production of lactic acid also promotes health by creating an inhospitable environment for invading organisms.¹ *L. acidophilus* has been shown to protect intestinal cells by competing for adhesion space in the gut against harmful bacteria. The *L. acidophilus* strain in this product has been specifically chosen because of its strong adherence and survival attributes in the GI tract. It has been demonstrated in vitro to tolerate exposure to gastric acid and bile salts, and has the ability to withstand certain medications.²



[†] 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.

***Lactobacillus plantarum* (Lp-115)[†]**

Lactobacillus plantarum is a beneficial bacteria commonly found in fermented foods including sauerkraut, pickles, brined olives and sourdough. *L. plantarum* has been found to compete against unwanted agents, due to the production of bacteriocins (lethal proteins) that inhibit bacterial growth.³ Studies have demonstrated that *L. plantarum* helps boost the immune response by stimulating Th1-mediated immunity.⁴

***Bifidobacterium lactis* (BI-04)[†]**

Bifidobacterium lactis is predominantly found in the colon. A double-blind, randomized placebo-controlled trial on subjects receiving *B. lactis* or placebo for eight weeks found that *B. lactis* supported a balanced immune response in individuals hypersensitive to environmental allergens.⁵ Studies examining immune development and dietary supplementation with *B. lactis* have shown that it supports GI health by reducing intestinal permeability.⁶

***Lactobacillus salivarius* (Ls-33)[†]**

Lactobacillus salivarius has been shown to produce bacteriocins which inhibit the growth of harmful organisms in the upper GI tract. It can withstand high concentrations of acids allowing *L. salivarius* to adhere and survive in the stomach and bind to gastric epithelial cells, while inhibiting unwanted agents with lactic acid production.⁷

***Lactobacillus casei* (Lc-11)[†]**

The immune-regulating properties of *Lactobacillus casei* have been reported in several studies. *L. casei* has been shown to regulate inflammatory pathways and reduce oxidative stress, indicating an antioxidant effect.⁸ *L. casei* has also been shown to support immune function by increasing natural killer (NK) cell activity and maintain normal inflammatory balance.⁹

***Bifidobacterium bifidum* (Bb-06)[†]**

Bifidobacterium bifidum has been shown to effectively compete with harmful organisms suggesting that *B. bifidum's* lactic acid and acetic acid production provides an antagonistic action against unwanted agents to help maintain microflora balance.¹⁰

Larch Arabinogalactan[†]

Larch arabinogalactan is a fermentable polysaccharide fiber from the Larch tree that enhances immunity by supporting the growth of beneficial gut microflora and strengthening the activity of NK cells.¹¹ It has been found to minimize ammonia synthesis and absorption, enhance production of short chain fatty acids and increase the population of beneficial gut microflora. In one placebo-controlled, double-blind, randomized trial, arabinogalactan was found to boost immune activity and support upper respiratory health.¹²

Directions

Mix 1 packet into 8 oz of a cold beverage of your choice or as recommended by your health care professional.

Does Not Contain

Wheat, gluten, yeast, soy, corn, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners or preservatives.

Cautions

If you are pregnant or nursing, consult your physician before taking this product.

Supplement Facts ^{V1}		
Serving Size 1 Packet (3 grams)		
Servings Per Container 15		
	Amount Per Serving	% Daily Value
Calories	10	
Total Carbohydrate	2 g	<1% *
Dietary Fiber	2 g	7% *
Sodium	10 mg	<1%
Proprietary Blend	1.3 g (225 billion CFU ⁺⁺)	
<i>Lactobacillus acidophilus</i> (La-14)		**
<i>Bifidobacterium bifidum</i> (Bb-06)		**
<i>Lactobacillus plantarum</i> (Lp-115)		**
<i>Bifidobacterium lactis</i> (BI-04)		**
<i>Lactobacillus casei</i> (Lc-11)		**
<i>Lactobacillus salivarius</i> (Ls-33)		**

* Percent Daily Values are based on a 2,000 calorie diet.
** Daily Value not established.

⁺⁺Colony Forming Units

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References

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