

ImmunoBiotic Pro

Immunobiotic Regulator*

ImmunoBiotic Pro starts with *Lactobacillus rhamnosus* originally derived from a Russian fermented dairy source. As international probiotic expert Dr. Gregor Reid**, Professor of Microbiology and Immunology at The University of Western Ontario states: "If a person skilled in the art wanted to select a bacterium type that conferred many beneficial effects for humans, he/she would not need to look much further than *Lactobacillus rhamnosus*.* Found naturally in many different foods, including fermented dairy products, this species can be present in the healthy intestine and vagina.*"

Key Features

- May stimulate and support both the innate and adaptive immune system responses*
- Cell wall fragments work quickly to stimulate the immune system*



#55300
60 vegetarian capsules



#55670
200 vegetarian capsules



800.545.9960
info@nutricology.com
www.nutricology.com



Eastern European folk culture has long regarded cultured milk products as having immune-stimulating properties.* Dr. Ivan Bogdanov of Bulgaria found that lactobacilli could effectively stimulate both cellular and humoral immunity (Bogdanov et al. 1977), and since then, many lactobacilli and bifido species have demonstrated immune-supporting properties (Shimizu et al. 1981; Kato et al. 1984; Isolauri 2001; Caramia 2009).* In fact, some scientists now propose to rename probiotic bacteria as 'immunobiotics' (Clancy 2003).*

Lactobacillus rhamnosus has been shown to modulate and/or enhance immunity (Kim et al. 2006; Lorea Baroja et al. 2007; Sheih et al. 2001; Anukam et al. 2008; Ibrahim et al. 2010; Cai et al. 2010; Vizoso Pinto et al. 2009), and to strengthen intestinal immunologic barrier function and recruit neutrophils and macrophages (Górska et al. 2009; Seow et al. 2009; Gupta & Gorg 2009).* Lactobacilli can stimulate the innate immunity, the "first responder" in the immune system hierarchy, and can drive mucosal immune mechanisms that have effects beyond the gut (Clancy 2003; Pagnini et al. 2010).*

In order to allow the immune-active components, which are usually sequestered inside the cells, to have unimpeded access to trigger and magnify the immune system response, the *Lactobacillus rhamnosus* cells in ImmunoBiotic Pro are lysed (broken apart).* The ability of bacterial cell walls from Gram positive bacteria to stimulate and strengthen host immunity has been known for many years (Shimizu et al. 1981; Kato et al. 1984).* Sharpe and others have shown that lactobacilli cell walls contain teichoic acids and antigens (which can stimulate antibodies).*

Whole cells and cell wall fragments of *L. rhamnosus* have been shown to strengthen the host's immune defenses by various means (Chan et al. 1985; Reid et al. 1985; 1987; Bruce & Reid, 1988; McGroarty & Reid, 1988; Perdigon et al. 1999; Pessi et al. 1999; Wicken et al. 1983).* Although probiotics and cultured milk products have immune supporting properties, cell wall fragments appear to be much more powerful immune system stimulators.*

In general, lactobacillus cell-wall fragment materials have been used safely for many decades. ImmunoBiotic Pro is one of our most popular products, and has shown itself to be safe and very well tolerated.

"Dr. Reid is an independent academic scientist who receives no financial remuneration for use of the above statement. He is not a spokesperson for Allergy Research Group or its products.

References:

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ImmunoBiotic Pro

#55300 • 60 vegetarian capsules

#55670 • 200 vegetarian capsules

Supplement Facts

Serving Size	3 Capsules
Servings Per Container	20 (#55300), 66 (#55670)
Amount Per Serving	% Daily Value
<i>Lactobacillus rhamnosus</i> Lysate Powder	
75 mg	†

† Daily Value not established.

Other ingredients: Hydroxypropyl methylcellulose, microcrystalline cellulose, L-leucine.

Suggested Use: As a dietary supplement, 1 to 3 capsules one or two times daily, or as directed by a healthcare practitioner.

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