



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*



#75300
60 vegetarian capsules



#75670
200 vegetarian capsules



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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.

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ImmunoBiotic Pro

#75300 • 60 vegetarian capsules

#75670 • 200 vegetarian capsules

Supplement Facts

Serving Size	3 Capsules
Servings Per Container	20 (#75300), 66 (#75670)
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.