

MEGA

IgG2000

Digestive & Systemic Immune Defense**



PRODUCT OVERVIEW

Mega IgG2000™ is a dairy-free immunoglobulin concentrate that supports healthy digestion, neutralizes environmental toxins, and improves gut barrier function. Unlike other milk-derived immunoglobulins on the market, Mega IgG2000 is derived from bovine serum, making it lactose-free, casein-free, and β -lactoglobulin-free.**

This unique alternative to bovine colostrum supports a healthy mucosal immune system by decreasing immune activation and strengthening gut barrier function.**

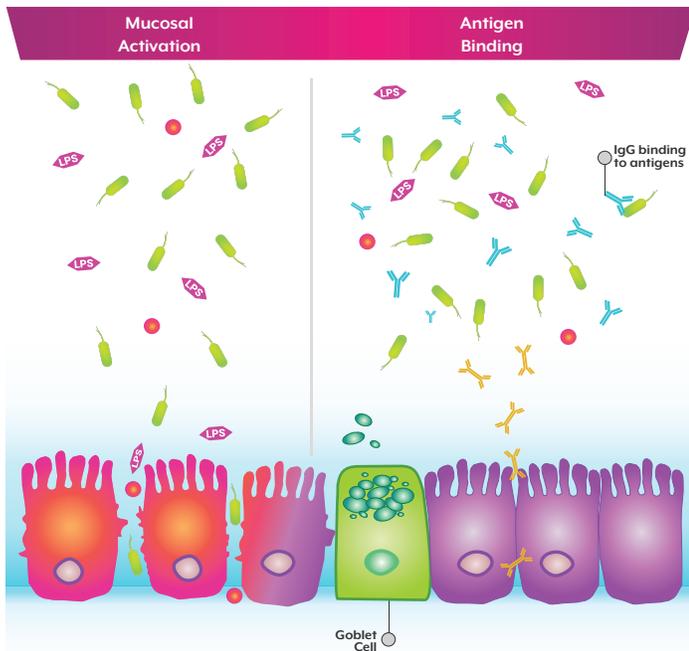
SUPPLEMENT FACTS

Serving Size: 4 capsules
Servings Per Container: 30

Amount Per Serving	% Daily Value
Total Protein	2g 4%*
Serum-derived immunoglobulin concentrate (ImmunoLin®)	2000 mg †
Immunoglobulin G (IgG)	900 mg †
Immunoglobulin M (IgM)	100 mg †
Immunoglobulin A (IgA)	20 mg †
Bovine serum albumin	100 mg †

† Daily values not established.

* Percent Daily Value is based on a 2,000 calorie diet.



IMMUNE RESPONSE

When an antigen enters the body, it elicits a response from the innate and adaptive branches of the immune system. The adaptive immune response utilizes B and T lymphocytes to find foreign antigens, neutralize them, and eliminate them from the body. B lymphocytes do this by producing antibodies, or immunoglobulins, that can bind to unwanted antigens and remove them from the system.**

LEFT SIDE: Free-flowing antigens that reach the epithelial lining can trigger mucosal activation and inflammation. **RIGHT SIDE:** IgG antibodies bind and neutralize these antigens before they can trigger mucosal activation.



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HOW DOES IT WORK?

Immunoglobulin G (IgG), the most abundant antibody in the system, can be found in blood and extracellular fluid, allowing it to control infections in the body. IgG antibodies can bind a variety of pathogens, including bacteria, viruses, and fungi, as well as their toxic by-products. Binding these toxins will neutralize them and allow the immune system to safely remove them from the body.**



Immune Support

Significantly reduces inflammation and intestinal damage**



Healthy Metabolism

Improves nutrient digestion and absorption to support a healthy metabolism**



Mucosal Defense

Maintains healthy mucosal barrier function in the digestive tract**

TABLE 1
Mega IgG2000 binds and neutralizes a variety of bacterial antigens.

Antigen	Description
Lipopolysaccharide (LPS)	Major immune activating cell wall component (lipid & carbohydrate)
Flagellin	Antigenic proteins that form appendages to provide motility
Lipoteichoic acid (LTA)	Immunostimulatory cell wall component of Gram(+) bacteria
PAM3CSK4	Immunostimulatory bacterial lipopeptide (synthetic)
Poly I:C	Analog of double-stranded RNA; stimulates cytokine production
Cytosine-p-guanine dinucleotides (CpG)	Bacterial DNA motif
C. difficile toxins A & B	Virulence factors
Helicobacter pylori	Gram-negative bacteria found in the stomach
Listeria monocytogenes	Gram-positive, anaerobic bacteria
Mycoplasma spp.	Bacteria lacking cell wall, resistant to most antibiotics

DOSING

Ages 2+. Take 4 capsules daily with or without a meal, or as directed by your healthcare professional.

Bovine-based. Do not consume if you have an allergy to beef.



1) Detzel CJ, Horgan A, Henderson AL, Petschow BW, Warner CD, Maas KJ, et al. Bovine immunoglobulin/protein isolate binds pro-inflammatory bacterial compounds and prevents immune activation in an intestinal co-culture model. PLoS one. 2015;10(4):e0120278. 2) Kuchibhatla R, Petschow BW, Odle J, Weaver EM. Nutritional Impact of Dietary Plasma Proteins in Animals Undergoing Experimental Challenge and Implications for Patients with Inflammatory Bowel Disorders: A Meta-analysis. Adv Nutr. 2015;6(5):541-51. 3) Perez-Bosque A, Miro L, Maijo M, Polo J, Campbell J, Russell L, et al. Dietary intervention with serum-derived bovine immunoglobulins protects barrier function in a mouse model of colitis. American journal of physiology Gastrointestinal and liver physiology. 2015;308(12):G1012-8. 4) Wilson D, Evans MD, Weaver E, Shaw AL, Klein GL. Evaluation of Serum-Derived Bovine Immunoglobulin Protein Isolate in Subjects with Diarrhea-Predominant Irritable Bowel Syndrome. Clinical Medicine Insights: Gastroenterology. 2013;6:49-60. 5) Asmuth DM, Ma ZM, Albanese A, Sandler NG, Devaraj S, Knight TH, et al. Oral Serum-Derived Bovine Immunoglobulin Improves Duodenal Immune Reconstitution and Absorption Function in Patients with HIV Enteropathy. Aids. 2013;27:2207-17.