

ImmuneX Plus



Clinical Applications

- Provides Immunoglobulins and Immunoregulating Factors That Promote Intestinal and Systemic Health*
- Supports Passive Immunity in the Intestine*
- Promotes Balanced Cytokine Production*
- Supports Muscle Performance and Recovery*

*ImmuneX Plus is self-affirmed GRAS supplements that provide IgY immunoglobulins and immunoregulating molecules from hyperimmune chicken egg. Research suggests that this dairy-free source of immunoglobulins and immune cofactors helps support immune function in the intestine and a healthy intestinal environment. These benefits positively impact extraintestinal health. For added support of gut microflora, the prebiotic arabinogalactan is provided in ImmuneX Plus. Preliminary research also suggests the immunoregulating molecules in these formulas help modulate cytokines and enhance sports recovery.**

All The 3rd Opinion Inc. Formulas Meet or Exceed cGMP Quality Standards

Discussion

Decades ago, immunology researchers began investigating the possible health benefits to humans that could be achieved by the consumption of products from hyperimmunized lactating cows and laying hens.^[1] Agricultural scientists soon discovered that they could simultaneously immunize a single laying hen against multiple human germs. The resulting avian immunoglobulins, known as IgY, are transferred to the egg yolk, paralleling the way human immunoglobulins (IgG) are passed to the placenta. From this discovery, a new functional food was born: the “hyperimmune egg.” ImmuneX Plus is the result of special hyperimmune egg harvesting and processing techniques that result in a polyvalent, immunoglobulin-rich, dried hyperimmune egg food product that can be consumed as a dietary supplement. Second generation ImmuneX Plus is vanilla-flavored and has arabinogalactan added.

IgY Immunoglobulins and Passive Immunity

Hyperimmune egg provides a concentrated source of environmentally specific IgY antibodies and immune-supporting cofactors that can confer passive immunity to the human being who consumes it.^[1-6] There are over 100 patents associated with the production of hyperimmune egg and its use in animals and humans, and it is a self-affirmed GRAS (generally recognized as safe) product—a designation that affirms safe consumption. Furthermore, hyperimmune egg and IgY have been studied extensively.*

Oral Health In a study of healthy volunteers, the use of an oral rinse containing an aqueous IgY solution increased the presence of active antibodies in saliva.^[7] Moreover, in vitro, animal, and human research support the benefits of custom IgY solutions, IgY-supplemented diets, and IgY-containing pastes that are designed for use in the dental plaque environment and to promote gingival health.^{*[8,9]}

Intestinal Health IgY stability through the orogastrintestinal tract and its safety profile are well-documented.^[5] In vitro, animal, and human studies provide evidence that supplemental IgY from hyperimmune egg imparts passive immunity in the intestinal tract.^[1,2,4,10-13] Providing the body with an increased supply of immunoglobulins also helps maintain a healthy balance of bacteria in the intestine. Supporting passive immunity and promoting microbiome balance lead to better overall health due to the link between gut health and systemic health. Furthermore, researchers postulate that by supporting passive immunity in the gut, immune overactivation might be reduced.^{*[1]}

Immunoregulatory Factors

Hyperimmune egg not only provides IgY immunoglobulins, but it also contains bioactive immunoregulatory factors. These immunoregulatory factors act directly on gastrointestinal surfaces where they may influence effector cells and also circulate systemically where they act as intercellular communicators. As intercellular communicators, they are responsible for the regulation of a variety of immune, hormonal, and metabolic pathways that have widespread systemic effects.^[1] Preliminary studies suggest that these immunoregulatory factors in ImmuneX Plus benefit cytokine modulation, joint health, blood lipid metabolism, exercise performance, and overall wellness.^{*[1,5]}

Arabinogalactan ImmuneX Plus features FiberAid™, an arabinogalactan-based, soluble fiber prebiotic derived from US-grown larch trees. The fiber is self-affirmed GRAS by the US Food and Drug Administration and other authorities. It remains pure and structurally unaltered following a multi-patented process (US 5756098, EP 866808, and other patents) that does not require harsh chemicals to free the polysaccharide from the plant matrix.

FiberAid, in doses of 4.5 g and higher, has been demonstrated to increase gut anaerobes such as lactobacilli and bifidobacteria, increase short-chain fatty acids, reduce ammonia levels in the large intestine, and support immunomodulatory activity.^{*[14-17]}

Cytokine Modulation Hyperimmune egg contains heightened levels of cytokine inhibitory factor (CIF) and cytokine activating factor (CAF).^[18,19] These bioactive molecules help balance the production of cytokines such as TNF-alpha and are believed to help the immune system recognize when to turn on and when to turn off.^{*[18,19]}

Muscle Performance and Recovery In clinical studies comparing the benefits of hyperimmune egg to an egg-protein placebo group, oral supplementation of hyperimmune egg (4.5 g to 13.5 g) for 10 days resulted in a significantly lower submaximal heart rate and higher peak power.^[20] In a double-blind, balanced, matched-pairs study, oral supplementation of hyperimmune egg (4.5 g to 13.5 g) improved strength performance and enhanced muscle recovery. The supplemented group also experienced significantly less muscle soreness.^[21] Other studies suggested that hyperimmune egg significantly increased levels of growth factors and overall bioavailability of IGF-1.^{*[22-24]}

Quality of Life HIV/AIDS patients (n=31) with varying levels of sickness were administered hyperimmune egg (4.5 g) for four to eight weeks. Research showed that supplementation appeared to improve multiple parameters of physical and mental well-being.^{*[25]}

Cardiovascular and Joint Health Studies have indicated that the consumption of hyperimmune egg may also support cardiovascular and joint health.^{*[26,27]}



Supplement Facts

Serving Size: 1 Scoop (about 6.1 g)
Servings Per Container: About 30

	Amount Per Serving	%Daily Value
Calories	30	
Total Fat	2 g	3% [†]
Saturated Fat	0.5 g	3% [†]
Cholesterol	75 mg	25%
Total Carbohydrate	1 g	<1% [†]
Dietary Fiber	1 g	4%
Protein	2 g	
IgY Max™ Hyperimmunized Egg Powder	4.5 g	**
Arabinogalactan (from <i>Larix laricina</i>)(heartwood)	1 g	**

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

Other Ingredients: Natural flavor (no MSG), monk fruit extract, and silica.

Contains: Egg

IgY Max™

IgY Max is a trademark of IgY Nutrition, LLC and is used under license.

Directions

Blend or shake one scoop (about 6.1 g) in cold liquid or sprinkle on cold food, such as salad, or use as directed by your healthcare practitioner. Do not heat, cook, or add to hot food or liquid.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner, and individuals with egg allergies should not consume this product. Do not use if tamper seal is damaged.

Does Not Contain

Wheat, gluten, yeast, soy, dairy products, fish, shellfish, peanuts, tree nuts, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

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Does Not Contain

Wheat, gluten, yeast, corn, soy, dairy products, fish, shellfish, peanuts, tree nuts, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

***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.**

