

Immune Glandular

Supports Immune Cell Activity & Mucous Membrane Health*



Immune Function

Macrophage Activity

Reduces Infection Duration

Immune Glandular

Available in 60 Count Vegetarian Capsules

Immune Glandular is Nutritional Frontiers' comprehensive immune balancing formula, for acute use during cold and flu season, or anytime you are fighting infection! This product combines nutraceuticals and herbs to boost immune cell activity, support mucous membrane health, and fight pathogenic microorganisms.*

Vitamin A (palmitate, beta carotene) plays an important role in immune system function and helps mucous membranes (especially in the lungs) resist invasion by disease-causing bacteria and viruses. Vitamin A increases immune cells and immune cell activity. Beta carotene is a precursor to vitamin A. Placebo-controlled research has shown benefits of beta-carotene in elevating white blood cell counts and enhancing cancer-fighting immune functions in people.

Vitamin C (Acerola) may help reduce the duration of the common cold, especially in children. It also regulates histamine production and metabolism. In studies, low vitamin C was associated with higher histamine production and administration of vitamin C reduced blood histamine levels. Vitamin C helps support the body during upper respiratory tract infections. Antioxidant within the adrenal cortex, supporting the production of the adrenal steroid hormones like cortisol, to benefit the stress response. Factors such as coffee, tea, smoking, illness, strenuous exercise, physical and mental stress, and certain prescription medications all deplete Vitamin C levels in the body.

Zinc (as Zinc bisglycinate chelate Albion®), an essential mineral, is found in almost every cell of the human body and stimulates the activity of approximately 100 enzymes. Zinc is involved in many functions in the body like immunity, gene expression, protein folding, enzyme function, and wound healing. Many research studies have shown that zinc induces improved immune response during infection, such as increasing CD4 T cells and T lymphocytes. Additionally zinc may reduce the duration and severity of cold symptoms.

Selenium (L-selenomethionine) demonstrates many benefits in the human body as an essential trace element. In addition to supporting thyroid function and immune cell counts, it is a precursor to synthesis of the powerful antioxidant glutathione.

Echinacea purpurea root - Echinacea species are well known for assisting the body in recovery from acute infections. Echinacea is a wildflower native to North America and was used by some Native American tribes to treat venomous bites, infectious diseases, and wounds. It activates white blood cells and modulates the immune system. Echinacea demonstrates anti-viral, anti-bacterial, anti-fungal, and anti-parasitic properties in various research studies. Echinacea preparations also support the body's anti-inflammatory and antioxidant responses which assist in healing from infections and restoring normal redox status.

Andrographis paniculata leaf is traditionally used to reduce inflammation and fight infections, as an anti-microbial herb. It has been utilized for centuries in Ayurvedic and East Asian medicine, and is distributed in different regions of southeast Asia, China, America, and the West Indies. Several studies confirm that Andrographis exhibits such biological properties as anti-microbial, antioxidant, anti-inflammatory, anti-infective, and immunostimulant activities.

Elderberry also called Sambucus nigra, has been used by herbalists for pain, inflammation, coughs, laryngitis, and cold and flu symptoms. Both in vitro and animal studies show that elderberry possesses anti-viral activity and reduces excessive sinus mucus excretion, making this plant an important ally in promoting sinus and upper respiratory tract health.

Wild Indigo (Baptisia tinctoria) root is commonly used to help infections and inflammation of the mucous membranes. Herbalists often use wild indigo in cases of enlarged tonsils with lymphadenopathy. Research has shown that baptisia root

combined with echinacea root and another plant called thuja demonstrate antiviral and immunomodulating effects, in particular increasing macrophage activity.

Animal glandular sources from New Zealand of **thymus** (ovine), **lymph** (bovine), and **spleen** (bovine) are included in **Immune Glandular**, based on the idea that the organs or glands of mammals are structurally similar to their human counterparts and would contain micronutrients and other ingredients needed to bolster proper function in patients. Glandular-derived medicines were commonly used in Western medicine before synthetic pharmaceuticals became widely available. Glandular therapy is less common in recent generations in America although it has a long history of use in many other cultures. People have traditionally eaten every edible part of animals including organs and glands. As a form of medicine, glandulars have played a role in early American medical practice, traditional European medicine, traditional Chinese medicine, and other medical traditions.

Serving Size: 2 Capsules | Servings Per Container: 30

Vitamin A (Palmitate, Beta Carotene)	375 mcg
Vitamin C (Acerola)	250 mg
Zinc (as Zinc Bisglycinate Chelate)(Albion®)	20 mg
Selenium (L-Selenomethionine)	50 mcg
Echinacea Purpurea (Echinacea Purpurea)(Root)	150 mg
Andrographis (Andrographis Paniculata)(Leaf)	150 mg
Elderberry Extract (Sambucus Nigra)(Berries)(5:1)	120 mg
Thymus (Ovine, NZ)	100 mg
Lymph (Bovine, NZ)	100 mg
Spleen (Bovine, NZ)	100 mg
Wild Indigo (Baptisia Tinctoria)(Root)	100 mg

Other Ingredients: Vegetarian Capsule (Hypromellose & Water)

Suggested Use: As a dietary supplement, take 2 capsules daily, or as directed by your healthcare practitioner.

Warnings: If pregnant or nursing, consult your healthcare practitioner before taking this product. Color of this formula may vary due to color variations of the ingredients. Keep out of reach of children. Store in a cool, dry place.

*This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

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