Immunitone Plus[™]

designs for health

Natural Support for the Immune System

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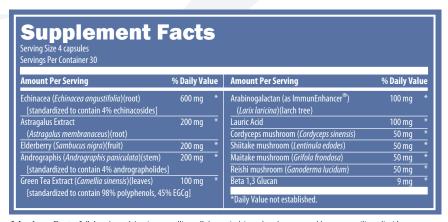
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Immunitone Plus[™] is a comprehensive herbal formula that is designed to support healthy immune system function. It contains herbs that support normal natural killer (NK) cell activity and the balance of cytokines, which are the regulatory proteins released by immune cells as part of a normal immune system response. The standardized herbs in this formula contain optimal and consistent amounts of the most active ingredients. Immunitone Plus[™] is suitable for long term use and for all age groups.

Research Highlights

Research suggests that certain herbs, mushroom extracts and other natural compounds have potential antiviral and antibacterial ability as well as the ability to stimulate natural killer (NK) cell activity, cytokine synthesis and the T-cell and B-cell mediated responses. The research presented here on compounds found in nature show significant improvement in an array of conditions such as influenza, respiratory tract infections, sinusitis, cancer, viral hepatitis, and various bacterial infections.¹⁻²⁰

- Echinacea (*Echinacea angustifolia*) "The Echinacea-treated group showed a significant augmentation of their primary and secondary IgG response to the antigen, during the first 2 weeks of treatment." "Traditional herbal medicine provides several remedies for strengthening the body's resistance to illness through effects on immune system components. This review article examines 3 popular herbal immune stimulants that are often of interest to cancer patients. Echinacea, a native of North America, is widely used to prevent, or provide early treatment for colds. Preclinical studies lend biological plausibility to the idea that echinacea works through immune mechanisms. Numerous clinical trials have been carried out on echinacea preparations: it appears that the extracts shorten the duration and severity of colds and other upper respiratory infections (URIs) when given as soon as symptoms become evident." 16
- **Green Tea Extract (***Camellia sinensis***) -** "The authors suggested the mechanism of anti tumor effects of Green Tea Extract possibly included both cellular immune function and the inhibition of tumor growth. The natural killer cell's activity (cpm) of treated group was raised from 10.7% of control group to 41%."
- Astragalus Extract (Astragalus membranaceus) "Astragalus extract improved the memory, raised SOD activity in brain and liver, decreased the MDA content in the liver of aged mice, reduced the MDA content in ischemia-reperfusion kidney, decreased the creatinine level in blood of rats, and promoted the activity of NK cells." "Astragalus has demonstrated a wide range of immunopotentiating effects and has proven efficacious as an adjunct cancer therapy." (MDA = Malonyldialdehyde)
- Elderberry Extract (Sambucus nigra) "Symptoms were relieved on average four days earlier and use of rescue medication was significantly less in those receiving elderberry extract compared with placebo. Elderberry extract seems to offer an efficient, safe and cost-effective treatment for influenza." 15
- Andrographis (Andrographis paniculata) "It is concluded that Andrographis paniculata had a high degree of effectiveness in reducing the prevalence and intensity of the symptoms in uncomplicated common cold beginning at day two of treatment. No adverse effects were observed or reported." Temperature was moderately reduced in the treatment group. It can be concluded that Kan Jang has a positive effect in the treatment of acute upper respiratory tract infections and also relieves the inflammatory symptoms of sinusitis. The study drug was well tolerated." (Kan Jang = Andrographis paniculata)



Other Ingredients: Cellulose (capsule), microcrystalline cellulose, tricalcium phosphate, vegetable stearate, silicon dioxide. ImmunEnhancer® is a registered trademark of Lonza, Inc.









- Larch Tree (*Arabinogalactan*) "Larch arabinogalactan is composed of greater than 98% arabinogalactan, a highly branched polysaccharide consisting of a galactan backbone with side-chains of galactose and arabinose sugars. Evidence also indicates human consumption of larch arabinogalactan has a significant effect on enhancing beneficial gut microflora, specifically increasing anaerobes such as Bifidobacteria and Lactobacillus. Larch arabinogalactan has several interesting properties which appear to make it an ideal adjunctive supplement to consider in cancer protocols. Experimental studies have indicated larch arabinogalactan can stimulate natural killer (NK) cell cytotoxicity, enhance other functional aspects of the immune system, and inhibit the metastasis of tumor cells to the liver. The immune-enhancing properties also suggest an array of clinical uses, both in preventive medicine, due to its ability to build a more responsive immune system, and in clinical medicine, as a therapeutic agent in conditions associated with lowered immune function, decreased NK activity, or chronic viral infection."
- Cordyceps Mushroom (Cordyceps sinensis) "These results indicate that an oral administration of hot water extract of Cordyceps sinensis may modulate IL-6 production by the activation of macrophages, and also enhance the secretion of hematopoietic growth factors such as GM-CSF and IL-6 from Peyer's patch which results in the modulation of not only the local but also systemic immune system."
- Shiitake Mushroom (Lentinula edodes) "The production of IL-2 and TNF-alpha were augmented in the treated human peripheral blood mononuclear cells. These results suggest that LE may induce Th1 immune responses." (LE = Lentinus Edodes = Shiitake mushroom) (Th1 = T helper cell Type 1)
- Maitake Mushroom (*Grifola frondosa*) "Edible mushrooms such as shiitake may have important salutary effects on health or even in treating disease. A mushroom characteristically contains many different bioactive compounds with diverse biological activity, and the content and bioactivity of these compounds depend on how the mushroom is prepared and consumed. It is estimated that approximately 50% of the annual 5 million metric tons of cultivated edible mushrooms contain functional "nutraceutical" or medicinal properties. In order of decreasing cultivated tonnage, Lentinus (shiitake), Pleurotus (oyster), Auricularia (mu-er), Flammulina (enokitake), Tremella (yin-er), Hericium, and Grifola (maitake) mushrooms have various degrees of immunomodulatory, lipid-lowering, antitumor, and other beneficial or therapeutic health effects without any significant toxicity...because of their potential usefulness in preventing or treating serious health conditions such as cancer, acquired immune deficiency syndrome (AIDS), and hypercholesterolemia, functional mushrooms deserve further serious investigation." ¹³
- **Reishi Mushroom (***Ganoderma lucidum***) -** "Reishi treatment showed positive results on hepatitis patients, particularly those without severe impairment. The improvement was seen in 92% of 355 patients studied. Use against liver disease is one of the mushroom's longest standing traditional applications." ¹⁴
- Lauric Acid "Previous studies have shown that glycerol monolaurate (GML), a surfactant commonly used in a wide variety of food and cosmetic products, inhibits the production of a variety of exotoxins by group A streptococci and staphylococci. Given the highly lipophilic nature of the structure of GML, it is suspected that the surfactant exerts its toxin inhibition effects via interaction with the cell membrane. Studies suggest that GML may be exerting its T-cell-proliferative effects along the calcium-dependent inositol phospholipid signal transduction pathway, but did not affect B cells."⁵
- Beta 1, 3 Glucan (*Saccharomyces cerevisiae*) "Beta-glucans are structural cell wall polymers of many fungi which possess immunomodulatory activities. Although the therapeutic benefits associated with these compounds, particularly as anti-infective and antitumorigenic agents, have led to a large body of published research over the last five decades, it is still unclear how these carbohydrates mediate their effects." "It was found that the function of NK cells was potentiated by preincubation with beta-glucan."

How to Take

• As a dietary supplement, take four capsules per day with meals, or as directed by your health care practitioner.

For a list of references cited in this document, please visit:

http://catalog.designsforhealth.com/assets/itemresources/ImmunotonePlusReferences.pdf

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