

MUSHROOM IMMUNE



Mushroom Immune is a synergistic blend of 14 powerful organic mushroom mycelia. The formula can be used as both a preventative to maintain a strong immune system and protect one from immune breakdown. It can be very beneficial in the midst of immune deficiency, chronic stress, debility, illness, and fatigue.

Many of the medicinal benefits of mushrooms are derived from glucan polysaccharides and polysaccharide-peptides found in their cell walls. Polysaccharides are long molecule chains that have powerful immune supporting properties. They have been shown to activate the immune response and potentiate a variety of immune cells such as monocytes, neutrophils, dendritic cells, natural killer (NK) cells, and macrophages, plus chemical messengers, such as interferons, cytokines, and interleukins.

Some of the benefits include:

- Immunomodulating
- Antioxidant
- Antimutagenic
- Antiviral, antimicrobial, antiparasitic
- Hepatoprotective
- Antidiabetic properties

Maitake stimulates regulation of interleukin-1, NK-cells, cytotoxic T-cells, and superoxide anions. The polysaccharides it contains have a unique structure and have been extensively researched for their immunomodulating activity. Maitake's primary polysaccharide, beta-D-glucan is well absorbed orally and has been researched extensively for its immune benefits as it relates to cancer and blood sugar support. It is helpful in supporting normal function for a wide variety of concerns including blood sugar metabolism, blood pressure regulation, healthy cholesterol levels, and urinary tract health.

Reishi contains numerous polysaccharides as well as triterpenes and amino acids that promote a normal immune response and provide cardiovascular and blood sugar support. It stimulates circulation and helps regulate blood pressure. Its water-soluble polysaccharides have been researched to have extensive immune supporting activity. Research studies report Reishi mushroom helps support healthy cholesterol, blood pressure, and blood sugar levels, and inhibits platelet aggregation. Its properties include analgesic, anti-inflammatory, antimicrobial, antioxidant, antiviral, and demonstrates anti-allergic activity.

Turkey Tail, also called *Coriolus*, has a multicolored mushroom cap resembling a turkey's tail. It has been heavily researched for its anti-cancer properties and its ability to support a normal immune response. Polysaccharide Krestin (PSK), a water-soluble protein-bound polysaccharide and polysaccharide-peptide (PSP) are two key compounds in Turkey Tail that have been the focus of much research. PSK acts both directly and indirectly to support normal cell replication, and also enhances interferon production to destroy viruses. PSP supports the immune system and has been studied to explore it for anti-mutagenic properties.

Chaga is known by in Siberia as the "Mushroom of Immortality." They consumed it on a daily basis to increase stamina, prevent disease, and promote longevity. It is unlike other mushrooms in that it isn't soft, but very hard like wood, and looks less like a mushroom and more like a large tree growth. It protects itself from harsh climates by concentrating natural compounds in order to survive, making it extremely nutrient dense and powerful in its health benefits. It is high in B vitamins, minerals, enzymes, flavonoids, and phenols. It contains a unique pigment-like phenolic compound called chromogenic complex, which exerts a protective effect on tissues. Chaga is also rich in superoxide dismutase (SOD), a potent antioxidant enzyme that scavenges tissue-damaging free radicals. It is considered to be a powerful adaptogen that strengthens the body's resistance to stress. Its active constituents are believed to be polysaccharides, triterpenes, and sterols. It has anti-inflammatory, antimutagenic, antiviral, analgesic, hepatoprotective, immune supporting, and hypoglycemic effects. It is also a rich source of beta glucans that possess immunomodulating activity.



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Cordyceps contains polysaccharides, sterols, peptides, fatty acids, vitamins, minerals, and nucleotides, and have been found to support the heart, lungs, kidneys, adrenals, and immune system. They are commonly used to increase energy, endurance, and sexual vitality. Cordyceps has antioxidant, free radical-scavenging, antimutagenic and hypoglycemic properties.

Shiitake demonstrates antimutagenic benefits not by directly attacking cancer cells, but by supporting the immune system. It is used in Japan to help support immune function in cancer patients. It also has immunomodulating, antimicrobial, antiviral, anti-parasitic, hepatoprotective, and cardiovascular effects.

Lions Mane is used in traditional Chinese medicine to increase strength and vigor, and to improve digestion. Its polysaccharides have been shown to have cytotoxic effects in cancer cells. Lions Mane is unique in that it supports brain health. It contains nerve growth factors, which are involved in the growth of neurons.

Poria cocos demonstrates anti-cancer and immunomodulatory activities. Its main chemical constituents include triterpenoids, polysaccharides, ergosterol, caprylic acid, undecanoic acid, lauric acid, dodecanoic acid, and palmitic acid. In Chinese medicine it is used to support normal function of the heart, lungs, kidneys, and spleen.

Fomes fomentarius has a long history of use as a styptic to stop bleeding and as a vulnerary to heal wounds. It exhibits antimicrobial, antiviral, and antimutagenic properties, which are believed to be primarily attributed to its nutrient content and to a substance it contains called fomentariol. *Agaricus blazei*, native to Brazil, is widely cultivated in Japan for its medicinal properties. It supports the immune system and has shown immunomodulating and antimutagenic activity.

Mesima, also known as *Phellinus linteus*, contains beta D-glucans, which enhance immune activity, and a compound called interfungins A, which has been reported to help balance blood sugar levels. It also exhibits antioxidant, antimutagenic, and antimicrobial effects. It has been used to support gastroenteric function concerning constipation, diarrhea, and irritable bowel.

Tramella is thought of as a tonic to the immune system and has been traditionally used in Chinese medicine with exhaustion and debility. It supports a normal immune response and leukocyte activity. It contains the polysaccharide glucuronoxylomannan, which has been shown to have immune modulating activity.

Velvet Foot, known in China and Japan as *Enokitake*, is traditionally used in Chinese medicine with various liver diseases and gastric ulcers. It has antimutagenic properties and contains the beta-glycoprotein Proflamin, which has been researched to explore its use as a combination therapy in immune treatment.

Zhu Ling (*Polyporus umbellatus*) has been traditionally used in cases involving edema, urinary problems, vaginal discharge, jaundice, and diarrhea. It possesses diuretic activities and has been used in the support of kidney function. It has antimutagenic, immune supporting, and hepatoprotective properties.

Directions: Take 1 capsule, 1-3 times per day, or as directed by your health care professional.

SUPPLEMENT FACTS		
Serving Size: 1 veggie cap		
Servings Per Container: 90		
	Amount Per Serving	% Daily Value
Proprietary Blend:	525mg	**
Maitake mycelia, Reishi mycelia, Turkey Tail mycelia, Chaga mycelia, Cordyceps mycelia, Shiitake mycelia, Lions Mane mycelia, Poria cocos mycelia, Fomes fomentarius mycelia, Agaricus blazei mycelia, Mesima mycelia, Tremella mycelia, Velvet foot mycelia, Zhu Ling mycelia (<i>Polyporus umbellatus</i>)		
** Daily Value Not Established.		

Other Ingredients: Vegetable Capsules (Pullulan)

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.



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