

## A potent combination of medicinal mushrooms offering strong immunostimulant effects.

### INDICATIONS:

- Immuno-stimulant
- Anti-viral
- Increases endurance
- Liver support
- Tumour inhibition

Mycolmmune™ has been custom formulated and contains four of the most powerful and extensively documented medicinal mushrooms available - Lentinus edodes (Shiitake), Grifola frondosa (Maitake), Ganoderma lucidum (Reishi) and Cordyceps sinensis (Cordyceps). A brief description of each follows.

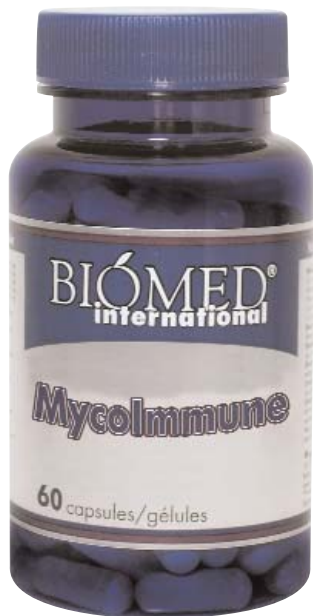
*Lentinula edodes (Shiitake)* has been studied extensively in vitro and in vivo (in Japan) and is used in cancer therapy.<sup>1</sup> The range of medicinal uses of the shiitake mushroom include immune system stimulation, tumour inhibition, liver function support, cholesterol lowering and as an anti-bacterial. *Lentinula edodes* contain several amino acids (e.g. isoleucine, leucine, lysine, methionine, phenylalanine, threonine and valine) as well as vitamin B1, B2 and mineral salts. Taken regularly it can assist in preventing rickets, especially in infants (children under 3 years old). Shiitake mushrooms also contain ergosterol, which in sunlight is converted to vitamin D. This feature further enables shiitakes to have a preventative and curative effect on colds and increase the body's resistance to illness.<sup>2</sup>

*Grifola frondosus (Maitake)* is one of the most thoroughly studied of the medicinal mushrooms. It is an extremely rich source of polysaccharides, which stimulate the immune system in diverse ways including stimulating T-cell and NK-cell activity. Extensive studies have been undertaken which verify Maitake's benefits in liver support, immune system stimulation, T-cell stimulation and tumour inhibition.<sup>3</sup>

*Ganoderma lucidum (Reishi)* has undergone extensive study and documented human trials that have verified its pharmacological characteristics as being immune system stimulation, tumour inhibition, histamine inhibition, anti-inflammation, anti-allergy and antioxidant.<sup>4</sup> In clinical practice it is also used in cases of insomnia, hypertension, dizziness, chronic bronchitis, bronchial asthma and duodenal ulcer.<sup>5</sup>

*Cordyceps sinensis (Cordyceps)* is a versatile multi-purpose medicinal mushroom with the following pharmacological characteristics: increases human endurance, strengthens the kidneys, stimulates the immune system, supports the lungs, assists in lowering cholesterol and helps to alleviate impotence.<sup>6</sup> Traditional Chinese doctors often use *Cordyceps sinensis* as a tonic in treating general debility after illness, weakness, spitting up blood caused by TB, chronic coughing and asthma caused by senility, night sweating, spontaneous sweating, anemia and in treating malignant tumours.<sup>7</sup>

continued on back page



### Each vegetarian capsule contains:

Ingredients	Mode of Action
Organic Lentinus edodes (Shiitake) . . . . . 150 mg	Immuno-stimulant, Anti-bacterial
Organic Grifola frondosa (Maitake) . . . . . 150 mg	Immuno-stimulant, liver support
Organic Ganoderma lucidum (Reishi) . . . . . 150 mg	Immuno-stimulant, anti-inflammatory
Organic Cordyceps sinensis (Cordyceps) . . . . . 50 mg	Immunostimulant
Vitamin C (ascorbic acid) . . . . . 50 mg	Antioxidant & Immuno-stimulant

**Other ingredients:** Magnesium stearate, microcrystalline cellulose.

**Side effects: & contraindications:** None Known.

**Warnings:** Do not take this product if you are allergic to mushrooms. Do not use if pregnant or breast-feeding.

**ADULT DOSAGE:** Take two capsules daily or as directed by a practitioner.

# Mycolimmune™

Supported by the addition of vitamin C, a mineral known for its antioxidant and immune system stimulating properties, Mycolimmune™ is a highly effective natural remedy for boosting the immune system and increasing endurance.

Mushrooms have been used as traditional healing remedies for centuries, especially in Asia. More recently, extensive research and clinical trials have verified the significant healing properties of medicinal mushrooms.<sup>8</sup> In particular, they are now widely recognized as powerful immune system stimulants<sup>9</sup> that vitalize the body's natural defence mechanisms thereby protecting it against environmental and pathogenic ailments and conditions such as colds, influenza and more serious illnesses. Some medicinal mushrooms also exhibit antibacterial and antitoxin traits, which help to fortify the liver and kidneys, whereas others, through their cytotoxic action and immunostimulation properties, can play a role in inhibiting tumour growth.<sup>10</sup>

The complex compounds in medicinal mushrooms act synergistically as powerful adaptogens, which assist the body in adapting to environmental and psychological stresses and thereby helping to reduce fatigue and increase endurance. Adaptogens supporting the adrenal function, help the body's cells to utilize oxygen more efficiently and increase the efficiency of cellular respiration. They also help to optimize the functioning of the body's nervous, hormonal, endocrine and immune systems.<sup>11</sup> By acting on the endocrine function, medicinal mushrooms help in combating premature aging and countering the effects of stress. Whereas, by helping to balance the hormonal system they boost the immune system.<sup>12</sup>

Mushrooms contain compounds that directly stimulate the immune system. Polysaccharides in mushrooms have immunostimulation, anti-tumour, antibiotic and anti-viral properties.<sup>13</sup> Some polysaccharides in medicinal mushrooms act in stimulating T-cell function, natural killer (NK) cells and macrophage activity. Macrophages, a type of white blood cell that engulfs pathogens such as yeast cells, bacteria, virus-infected cells, etc., are found in highest concentration in the mucous membranes of the body - especially throughout the digestive, respiratory and urinary tracts. Polysaccharides and triterpene compounds, in mushrooms, also play a supporting and energizing role in the system of immune cells (including macrophages) centred in the spleen, liver and lymph tissues that engulf and store wastes and toxic chemicals.

## References:

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