



Lionsmane™

Product Information Sheet

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Lionsmane (*Hericium erinaceus*) is a **Phytotherapeutic Extraction** of Lion's Mane Mushroom and Mycelium.

Lionsmane Extract *Hericium erinaceus*, also known as, Yamabushitake or Hedgehog Mushroom, is an edible fungus, which has a long history of usage in traditional Chinese medicine. *Hericium erinaceus* a culinary and medicinal mushroom is a well-established candidate for brain and nerve health. This mushroom is rich in some physiologically important components, especially the hericenones and erinacines, are responsible for anti-cancer, immunomodulating, hypolipidemic, antioxidant and neuroprotective activities of this mushroom.

H. erinaceus has also been reported to have anti-microbial, anti-hypertensive, anti-diabetic, wound healing properties among other therapeutic potentials. The reported health-promoting properties of the mushroom fruit bodies, mycelia, and bioactive pure compounds include antibiotic, anticarcinogenic, antidiabetic, antifatigue, antihypertensive, antihyperlipidemic, antisenescence, cardio-protective, hepatoprotective, nephron-protective, and neuroprotective properties and improvement of anxiety, cognitive function and depression. The described anti-inflammatory, antioxidative, and immune-stimulating properties in cells, animals, and humans seem to be responsible for the multiple health-promoting properties.

Lion's Mane mushroom is a culinary mushroom that has been extensively studied for its neuro-health properties and has become a well-established candidate in promoting positive brain and nerve health-related activities by inducing the nerve growth factor from its bioactive ingredient. The polysaccharides in an aqueous extract of the Lion's mane mushroom could induce neuronal differentiation and promote neuronal survival.

H. erinaceus induced the expression of neurotrophic factors such as NGF in astrocytes. In their studies, hericenones were isolated from the fruiting bodies of Lion's mane while erinacines were isolated from the mycelium of the mushroom. Extracts of dried fruiting bodies of *H. erinaceus*, reduce endoplasmic reticulum stress-induced cell death. This may reduce the risk of neurodegenerative disease-induced cell death.