



**Immulin**

MBG<sup>®</sup> Lion's Mane

Focus and Thrive



## What is Immulink MBG<sup>®</sup> Lion's Mane?

Immulink MBG<sup>®</sup> Lion's Mane (standardized in beta glucan isolated from the Lion's Mane mushrooms) is an organic adaptogen, defined as a carbohydrate polymer derived from the mycelium of *Hericium erinaceus*, built from chains of D-glucose units linked by  $\beta$ -glycosidic linkages. Research has demonstrated that this unique polymer effectively supports cognitive health, mental clarity, and quality of life (mood) by revitalizing a healthy and robust immune response without over-stimulating it.

Beta glucan is known as the biological response modifiers (BRM), which refers to the ability to up-regulate and down-regulate the response of biological systems. The results of clinical research indicate that the presence of beta glucan is linked to the production and activity of macrophage, NK-cells, T-cells and cytokines in the immune system. This is accomplished by a cascade of biological reactions triggered by the binding of the beta glucan molecules to the dectin1 and CD18 receptors presented on the front line immune cells.



# Modern Technology inspired by Ancient Wisdom

» Mushrooms have been used for thousands of years in traditional medicine. In Asia, mushrooms are considered a specialty food to promote health and longevity. While the East continues to honor their long love of the mushroom, the West is only beginning to look at the mushroom in a new light and starting to investigate mushrooms for their medicinal properties. What the research has revealed so far is that the polysaccharide derived from the mushrooms known as beta glucan is thought to have a significant impact on priming the immune system.

Immulin MBG® Lion's Mane is a water soluble, organic form of beta glucan derived from a proprietary strain of mushroom called *Hericium erinaceus*. The polymer mobilizes components of the immune system through a scientifically validated mode of action. By promoting immune wellness, Immulin MBG® Lion's Mane provides consumers with an alternative for their cognitive health by supporting and balancing the body's innate immune response.

## Scientific & Regulatory Advantages of Immulin MBG® Lion's Mane include:

- Manufactured with technologies protected by numerous United States, PROC, and other international patents.
- Certified USDA organic.
- PALEO, Keto and Vegan friendly.
- Generally Recognized as Safe (GRAS) and is also non-allergenic, gluten / soy/ dairy/ grain/ GMO-free, certified Kosher, and Halal.
- Safe for daily and yearly consumption, demonstrated in the extensive toxicology profile established from toxicity studies.

## Incorporating the benefits of Lion's Mane in your next product

Immulin MBG<sup>®</sup> Lion's Mane is perfect for manufacturers due to its natural properties being water soluble, heat resistant and pH stable. As a result, it can be incorporated in an array of trendy products including wellness shots, kombucha, elixirs, vegan broth, organic snack bars and grain/gluten-free/PALEO compliant products.



# Formulation Benefits

- A perfect candidate to incorporate the benefits of mushrooms in food and beverages
- A highly concentrated form of  $\beta$ -1,3/1,6 glucan (>70%) that is highly soluble in water
- Can be applied into any application with minimal formulation efforts
- Improves textures and retains moistures of baked goods and cooked/ frozen vegetables
- Enriches the positive organoleptic attributes of high protein products
- Acid/ alkaline and heat/ freeze/ thaw stable, maintaining the beta glucan content under harsh manufacturing conditions such as pasteurization and sterilization
- Contributes minimal viscosity to the existing formulation
- Has minimal added flavor, taste or color


# Applications

- RTD beverages including coffee/ tea, elixirs, soda, kombucha and wellness shots
- Frozen or RTD broth
- Snack bars, granola and meal replacement products
- Salad dressings and sauces
- Yogurt, Kefir and other dairy products
- Gummies, power mixes, tablets or capsules for dietary supplements



# Premium Organic Lion's Mane Extract for your adaptogen requirements

Immulin MBG® Lion's Mane is the high quality, research-based organic ingredient derived from the combination of science and nature available to the global nutrition industry. With decades of research and millions invested into developing a proprietary biotechnology, this unique ingredient is capable of supporting and priming the body's natural defense, providing year-round support to maintain focus and being energetic.



“Considering its properties, Immulin MBG® Lion's Mane is an incredible, and now well-documented, ingredient that's delivering real solutions to consumers and manufacturers. We're thrilled to provide this sort of health and wellness innovation to people worldwide and through so many affordable products that address countless customer needs and demands.”

**Dr. S.N Chen, Chief Science Officer, SBG**

## Physical and Chemical Specifications

### PHYSICAL PARAMETERS

Appearance	Fine light beige powder; clear, transparent in solution
Odor	Mild
Taste	Bland
Solubility	Hydroscopic with solubility >90%
Stability	Acid/Alkaline (pH 1-11), retort processing and heat/freeze/thaw stable

### CHEMICAL PARAMETERS

Total Carbohydrate (%)	>90
Beta-Glucan ( $\beta$ 1,3 1,6) (%)	Min. 70
Fat (%)	<1.0
Protein (%)	<1.0
Moisture (%)	<5.0
Ash (%)	<3.0

## Storage and Packing

Storage	Store in original sealed packaging at ambient room temperature away from moisture and sunlight
Stability	36 months if stored in original sealed packaging under ambient room temperature
Packing	20 kilograms paperboard carton



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