Research suggests that certain herbs, mushrooms 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 necessary for a strong immune defense. The research below on compounds found in nature, and in ImmunoBerry™ Liquid, show significant improvement in an array of conditions such as influenza, respiratory tract infections, sinusitis, cancer prevention, viral hepatitis, and various bacterial infections.1-15

**Elderberry (Sambucus nigra)**

European elder grows up to 30 feet tall, is native to Europe, but has been naturalized to the Americas. The flowers and berries of Sambucus nigra are used most often medicinally and contain a variety of flavonoids which have been found to possess a variety of biochemical and pharmacological actions, including antioxidant and immunologic properties. According to ethnobotanical surveys, Sambucus nigra is one of the plants most commonly used for medicinal purposes in the world. In addition to it’s medicinal properties it has a pleasant taste, which makes it useful in creating a pleasant tasting liquid herbal extract suitable for children.9-15

"Symptoms were relieved on average 4 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."9

**Astragalus Root (Astragalus membranaceus)**

Astragalus products are derived from the roots of Astragalus membranaceus or related species, which are native to China. In traditional Chinese medicine, astragalus is commonly found in mixtures with other herbs, and is used in the treatment of numerous ailments, including heart, liver, and kidney diseases, as well as cancer, viral infections, and immune system disorders. Western herbalists began using astragalus in the 1800s as an ingredient in various immune tonics. Antiviral activity has been reported with the use of astragalus in laboratory and animal studies. A "Astragalus extract improved the memory, raised SOD activity in brain and liver, decreased the malonyldialdehyde (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."3  "Astragalus has demonstrated a wide range of immunopotentiating effects and has proven efficacious as an adjunct cancer therapy."4

**Wild Cherry Bark (Prunus serotina)**

Cherry includes members of the Prunus genus, which contains several species that have been used both as food and medicine. Cherries have been found to contain extensive polyphenolic compounds that may have a number of beneficial biological activities, including antioxidant, anticancer, and anti-inflammatory properties. The main active ingredient is thought to be the cyanogenic glycoside, prunasin. Due to its powerful sedative action on the cough reflex, wild cherry bark finds its main use in the treatment of irritating coughs and thus has a role in the treatment of bronchitis. It is also used to soothe sore throats, while also imparting a pleasant taste into an herbal extract, syrup or elixir. This makes it particularly useful in children.16-18

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**Supplement Facts**

<table>
<thead>
<tr>
<th>Serving Size 1 ml (approx. 35 drops)</th>
<th>Servings Per Container 118</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amount Per Serving</strong></td>
<td><strong>% Daily Value</strong></td>
</tr>
<tr>
<td>Elderberry (<em>Sambucus nigra</em>)</td>
<td>200 mg</td>
</tr>
<tr>
<td>Astragalus Root (<em>Astragalus membranaceus</em>)</td>
<td>100 mg</td>
</tr>
<tr>
<td>Shiitake Mushroom (<em>Lentinula edodes</em>)</td>
<td>75 mg</td>
</tr>
<tr>
<td>Maitake Mushroom (<em>Grifola frondosa</em>)</td>
<td>75 mg</td>
</tr>
<tr>
<td>Wild Cherry Bark (<em>Prunus serotina</em>)</td>
<td>50 mg</td>
</tr>
<tr>
<td>Beta 1,3 Glucan</td>
<td>25 mg</td>
</tr>
</tbody>
</table>

*Daily Value not established.

**Other Ingredients:** Vegetable glycerin, deionzied water, raspberry and berry natural flavor.
Shiitake mushroom *(Lentinula edodes)*

Shiitake mushrooms *(Lentinula edodes)* are thought to have originated in Japan and China. The mushrooms are large and black-brown with an earthy rich flavor. Shiitake mushrooms are commonly eaten in stir-fries, soups, and as a meat substitute. Shiitake mushrooms have been cultivated for over 1,000 years and can be traced to the Song Dynasty (960-1127 A.D.). The uncultivated mushroom may have been eaten as early as 199 A.D. Shiitake is traditionally taken orally for immune system stimulation, cholesterol lowering, and anti-aging. Lentinan, the polysaccharide derived from shiitake, has been injected intravenously, intra-muscularly, and intraperitoneally as an adjunct treatment for cancer and HIV infection. Lentinan also modulates the immune system in human studies. The antimicrobial activity of lentinan suggests other uses may develop in the future.

“The production of IL-2 and TNF-alpha were augmented in the treated human peripheral blood mononuclear cells. These results suggest that LE (Lentinus edodes = shiitake mushroom) may induce T helper cell Type 1 immune responses.”

Maitake mushroom *(Grifola frondosa)*

Polysaccharide constituents of maitake have been associated in animal and human studies with multiple bioactive properties. Extracts of maitake mushroom, and particularly the beta-glucan polysaccharide constituent, have been associated with immune modulation in pre-clinical studies, and are hypothesized to exert anti-tumor effects as a result of these immune properties.

“Edible mushrooms such as shiitake may have important salutary effects on health or even in treating disease. It is estimated that approximately 50% of the annual 5 million metric tons of cultivated edible mushrooms contain functional “nutraceutical” or medicinal properties. 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.”

**Beta 1,3 Glucan**

Beta-glucan is a soluble fiber derived from the cell walls of algae, bacteria, fungi, yeast, and plants. It is commonly used for its immuno-modulating and cholesterol-lowering effects. Beta-gluca ns have also been used to treat diabetes and for weight loss.

“Beta-gluca ns 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.”

**Recommended Use**

Take 1 ml (approx. 35 drops) one to three times daily or as directed by your health care practitioner.

**References**