Discussion

Every day, whether by choice or by chance, millions of people encounter physical and emotional stress which can challenge the immune system. The ingredients in Core Immune Boost were selected for their immune-supporting mechanisms.

Whole Glucan Particle is a mannan-free, high-quality, very pure, patented GRAS ingredient containing an insoluble complex carbohydrate known as beta 1,3/1,6 glucan, which is purified from Saccharomyces cerevisiae (baker’s yeast). The 1,3/1,6 linkages of yeast beta glucan are known to spark the greatest degree of biological immune enhancement. Among more than 800 published studies, animal toxicity studies with doses ranging from 0 to 1,000 times the recommended daily dose (sub-chronic & acute toxicity) and human studies with doses up to 60 times (15 grams) the recommended daily dose have demonstrated safety without an increase in tested cytokines or any adverse effects. A 250 mg oral dose produces efficacious immune modulation by a defined mechanism of action accepted by the scientific community. Health benefits are demonstrable by measuring significant increases in phagocytosis, selective cytokine release, and oxidative degranulation. Statistically significant clinical studies have consistently demonstrated that daily use of whole glucan particle improves overall physical health, reduces the harmful effects of stress on the body, reduces symptoms associated with common immune challenges, enhances vigor and mental clarity, and reduces fatigue.

Olive Leaf Extract (Olea europea), derived from a traditional medicinal plant, has demonstrated, through in vitro and animal studies, multiple healthful properties. These include support against foreign microbes such as bacteria, viruses, fungus, and parasites when administered either pre- or post-infection. In one study, olive leaf extract dramatically decreased viral titers and viral protein accumulation (viral effect) dose-dependently when added to cell monolayers 36 h post-infection. In the same study, olive leaf extract and its most active component, oleuropein, were able to inhibit viral-induced cell-to-cell membrane fusion in uninfected cells, suggesting interactions with viral envelope. Other mechanisms of action include the ability to stimulate phagocytosis, an immune response against harmful microbes, plus, in certain cases, the ability to neutralize the production of reverse transcriptase and protease, enzymes that can adversely alter the RNA of healthy cells.

Core Immune Boost’s “clean” source of olive leaf extract is standardized to a generous 20% for oleuropein, a bitter glucoside hydrolyzed in the body to elenolic acid, which is believed to be the most active component. Some formulas are standardized to as little as 6% oleuropein.

Vitamin C (as ascorbic acid), known mostly as an antioxidant, has been the subject of controversy for more than six decades with respect to its ability to prevent or reduce the severity/duration of common acute immune challenges. A Cochrane Review examined 65 years worth of placebo-controlled studies (55 studies) that employed at least 200 mg vitamin C. Within, three meta-analyses, in a subgroup of six studies, vitamin C reduced signs of acute immune challenge an average of 50% in marathon runners, skiers, and soldiers that had been stressed physically or by cold temperature. Prophylactic use of the relatively large doses of the vitamin reduced duration significantly.
**Supplement Facts**

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<thead>
<tr>
<th></th>
<th>Amount Per Serving</th>
<th>%Daily Value</th>
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<tbody>
<tr>
<td>Vitamin C (as ascorbic acid)</td>
<td>1000 mg</td>
<td>1667%</td>
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<tr>
<td>Olive Extract (Olea europaea)(leaf)(20% oleuropein)</td>
<td>1000 mg</td>
<td>**</td>
</tr>
<tr>
<td>Whole Glucan Particle (High Potency Beta Glucan naturally derived from Saccharomyces cerevisiae)</td>
<td>250 mg</td>
<td>**</td>
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**Other Ingredients:** HPMC (capsule), stearic acid, magnesium stearate, and silica.

**MAY BE COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS AND APPLICATIONS:** US 7,981,447; US 7,022,685; US 7,566,704; US 6,369,216; US 5,702,719 and patents pending.

**Directions**

At the first sign of immune challenge, take three capsules, with water, preferably on an empty stomach. Repeat one to two more times within 24 hours.

**References**

2. Fuller R., et al. A randomised controlled trial to assess the ability of yeast-derived 1,3/1,6 glucopolysaccharide to reduce upper respiratory tract infection symptoms. Not yet published. Presented at the 2010 meeting of the British Society of Immunology

**Cautions**

Consult with your healthcare practitioner before use. Keep out of reach of children.

*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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