Consumer leaflet

Please read this leaflet carefully because it provides important information. Immulina Plus Capsules is a dietary supplement, sold in pharmacies and health food stores without prescription. This product is not intended to diagnose, treat, cure, or prevent any disease.

Immulina® plus

Dietary Supplement Capsules
Boost the Immune System

Composition:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Immulina plus</th>
<th>Immulina plus forte</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount [mg] for 1 capsule, i.e. 1 minimal daily dose:</td>
<td>Amount [mg] for 2 capsules, i.e. recommended daily dose:</td>
</tr>
<tr>
<td>LCEPEEN from Spirulina Extract</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>Baker’s Yeast Extract <em>Saccharomyces cerevisiae</em> providing 70% 1,3-β-D glucan</td>
<td>107.5</td>
<td>215</td>
</tr>
<tr>
<td></td>
<td>70</td>
<td>140</td>
</tr>
<tr>
<td>Acerola Fruit Extract (<em>Malpighia glabra</em>) providing 25% vitamin C</td>
<td>80 (25% DRV)</td>
<td>160 (50% DRV)</td>
</tr>
<tr>
<td></td>
<td>20 (25% DRV)</td>
<td>40 (50% DRV)</td>
</tr>
<tr>
<td>Zinc (as gluconate)</td>
<td>5 (50% DRV)</td>
<td>10 (100% DRV)</td>
</tr>
</tbody>
</table>

Accessory ingredients: Calcium biphosphate – stabilizer (E341), Magnesium salts of fatty acids – carrier (E470b), Cellulose microcrystalline – carrier (E460), Titanium dioxide – colour (E171), Gelatine – capsule shell.

**Direction for use:** One or two capsules daily while having meal or after meal. In case of common cold/flu season or low immune function the dose can be doubled temporarily. Do not exceed the recommended daily dose.

**Properties and mode of action:** Immulina Plus Capsules provides four active ingredients: LCEPEEN from Spirulina Extract, 1,3/1,6-β-D Glucan from Baker’s Yeast Extract, Vitamin C from Acerola Extract and Zinc have beneficial effect on immune system. These active ingredients show synergistic effect\(^3\) working more effectively.

**Spirulina Platensis Extract:** provides the bioactive lipopolysaccharide complex, so called LECPEEN, obtained in a special, patented extraction process. This complex, when taken orally, does not absorb from GI tract and it is phagocytized by macrophages and dendritic cells, so called antigen-presenting cells\(^4\), causing their stimulation. The stimulated cells migrate to the lymphoid tissue of GI

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\(^1\) i.e. – *latin: id est* = that is


\(^3\) Synergy – joint action of two or more agents (drugs) that, taken together, produce a greater effect than the sum of their individual effects.

\(^4\) Antigen-Presenting Cells - (APCs) are cells that display foreign antigen complexes to the immune system. There are three main types of antigen-presenting cell: dendritic, macrophages and B lymphocytes.
(so called GALT\(^5\)) and stimulate the whole immune system. The lab tests and preclinical data indicate that it supports the innate immune system.

**Baker’s Yeast Extract** (Saccharomyces cerevisiae) provides β-1,3/1,6-D-glucan is derived from the yeast-cell wall. The most active forms of β-glucans are those comprising D-glucose units with (1,3) links and with side-chains of D-glucose attached at the (1,6) position. These are referred to as β-1,3/1,6 glucan. After large molecule β-glucan is taken orally, it does not absorb from GI tract and it is phagocytized by macrophages and dendritic cells, so called antigen-presenting cells and through them activating the innate immune system.

**Acerola Fruit Extract** (Malpighia glabra), so called Barbados cherry, is known for being extremely rich in vitamin C, the second highest vitamin C content measured in fruits. One Acerola fruit weighing approx. 4.5 g has as much C vitamin as one kg of lemon fruits. One small glass (180 ml) of Acerola juice may contain as much C vitamin as 3.5 gallons of orange juice. It also contains substantial amount of vitamins A, B1, B2 and B3 as well as carotenoids, bioflavonoids and minerals (calcium, phosphorous, iron), which provide very important nutritive value and have antioxidant uses.

The C vitamin in Acerola fruit comes in a bio-flavonoid complex (together with rutin and hesperidin), which is better absorbed by human organisms than synthetic ascorbic acid. Vitamin C in this complex is also more stable and continuously released that enhances its bioavailability. Moreover, rutin and hesperidin have some beneficial effects. Vitamin C plays many functions in the body i.e. enhances immune system, increases resistance to infection, counteract tiredness and fatigue.

**Zinc** (as zinc gluconate) – is an essential element that plays important role in numerous functions of human body. Zinc is also known to play a central role in the immune system, and zinc-deficient persons experience increased susceptibility to a variety of pathogens. Zinc is crucial for immune health particularly in children.

Additional remarks: Do not use if you are allergic to any ingredient. Do not use after expiry date or if the blister with capsules is broken. Pregnant or nursing women should consult your health care professional before use. A dietary supplement cannot be used as a substitute for a varied diet. The product should be stored out of the sight and reach of young children at room.

Available packages: boxes containing 30 or 60 regular capsules or box containing 30 forte capsules.

Manufactured by Phytomedica Poland, in European Union, phone: +48 550 60 30, [http://immulina.co.uk](http://immulina.co.uk), address: 31/35 Ogrodowa Street, 00-893 Warsaw, Poland

Immulina® is registered trade mark

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\(^{5}\) GALT - gut-associated lymphoid tissue and works to protect the body from invasion. The digestive tract is an important component of the body's immune system. In fact, the intestine possesses the largest mass of lymphoid tissue in the human body. The GALT is made up of several types of lymphoid tissue that store immune cells, such as T and B lymphocytes, that carry out attacks and defend against pathogens.
References:

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