

# Immuno

oral spray



**Immuno** is a food supplement based on colostrum, glutathione, zinc, vitamin C and echinacea, useful for supporting immune defenses during the changes of the seasons and in periods of need.

- ▲ IMMUNE DEFENSE SUPPORT
- ▲ FLU PREVENTION
- ▲ PSYCHO-PHYSICAL WELLBEING



## ACTIVE INGREDIENTS

- ▲ Colostrum
- ▲ Glutathione (protected)
- ▲ Zinc (from bisglycinate)
- ▲ Vitamin C (water stable)
- ▲ Echinacea purpurea root m.g.

### DOSAGE

4 puffs per day

### METHOD OF USE

spray 4 puffs directly into the mouth, preferably just before bedtime

### PACK SIZE

oral spray

### INGREDIENTS

Water, bisglycinate zinc, vitamin C, colostrum, echinacea purpurea root d.e., natural flavoring, sweetener, preservative.

## The immune system

The immune system is our biological defensive complex, essential for protection from harmful foreign substances (antigens). Antigens are usually microorganisms such as bacteria, fungi, protozoa and viruses.

The immune system is made up of a complex set of highly specialized cells and organs, each with a specific role, that cooperate in defending the organism from infections.

The most important immune cells are lymphocytes. There are two particular classes of lymphocytes: B lymphocytes, which develop in the bone marrow, and T lymphocytes, which mature in the thymus, an organ located in the chest behind the breastbone.

## Strengthening the defenses

**Strengthening the immune system** is beneficial when external or internal factors weaken it. In these situations, the reduced effectiveness of the immune system leads to a greater susceptibility to infections (diseases triggered by infectious agents such as bacteria, viruses, fungi and parasites).

## What weakens our immune defenses?

- ▼ STRESS
- ▼ PATHOLOGIES
- ▼ UNLIMITED USE OF ANTIBIOTICS
- ▼ CLIMATE CHANGE



VEGAN



GLUTEN FREE



LACTOSE FREE



HIGH QUALITY  
RAW MATERIALS

For a complete approach, from the scientific research of the Swiss pharmaceutical company **Conrad Swiss** comes **IMMUNO**, a supplement with:



## ZINC

Zinc is one of the most abundant trace elements in the body. It is involved in several functions, including cellular metabolism, stabilization of protein structure and regulation of genetic activities. Zinc deficiency thus may imply that a certain genetic predisposition results in illness.

**Common cold prevention.** Zinc is a popular remedy for the treatment of the common cold, as it plays a central role in immune function. A recent scientific review showed that taking Zinc soon after the onset of symptoms of the common cold may significantly reduce both the duration and severity of the illness. Another finding was that Zinc supplementation may prevent the common cold in young children.



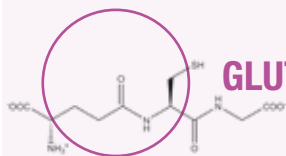
## ECHINACEA

Echinacea, also known as the purple coneflower, is an herbal medicine that has been used for centuries, customarily as a treatment for the common cold, coughs, bronchitis, upper respiratory infections, and some inflammatory conditions.

Among its best known actions:

- ◆ **Anti-inflammatory activity**
- ◆ **Antioxidant activity**
- ◆ **Immunosupportive activity**
- ◆ **Antiviral and antifungal activity**

Several animal and human studies have suggested that Echinacea stimulates neutrophil and macrophage phagocytic function. Other scientific studies suggests that the Echinacea purpurea possesses nonspecific, short-term immune system stimulant properties.



## GLUTATHIONE

Glutathione is the most abundant endogenous antioxidant and involved in protecting cells and tissues against oxidative stress, in detoxification and immune function.

Glutathione is critical for maintaining health and preventing diseases.

### **Immune function, countering oxidative stress and inflammation.**

Several studies have demonstrated the interdependency of oxidative stress, the immune system, and inflammation.

Suboptimal glutathione concentrations have been associated with a number of various acute and chronic diseases including type 2 diabetes and atherosclerosis.



## VITAMIN C

Vitamin C is a cofactor for a host of metabolic reactions in the body. It also has a range of non-enzymatic reducing activities in chemical reactions that generate free radicals. Vitamin C has a strong capacity to quench superoxide radicals arising from intracellular and extracellular reactions.

### **Contributes to maintain the normal function of the immune system.**



## COLOSTRUM

**Colostrum** is the fluid produced by the mammary gland in the first few days after giving birth. Colostrum contains a large amount of white blood cells (lymphocytes) and immunoglobulins, especially type A, but also IgG and IgM. These defensive proteins are endowed with a remarkable anti-infective capacity and act predominantly in the intestine; they represent the main components of the so-called "adaptive immune system".

It therefore has a dual action: on the one hand it is useful for **supporting the immune system** and for the prevention of serious intestinal diseases, on the other hand it is useful **for post-illness recovery**.

- 1 F.O Uruakpa, M.A.H Ismond, E.N.T Akobundu, Colostrum and its benefits: a review, *Nutrition Research*, Volume 22, Issue 6, 2002, pages 755-767
- 2 Susan S Percival, Use of echinacea in medicine, *Biochemical Pharmacology*, Volume 60, Issue 2, 2000, Pages 155-158
- 3 Luettig B, Steinmueller C, Gifford GE, Wagner H and Lohmann Matthes M L, Macrophage activation by the polysaccharide arabinogalactan isolated from plant cell cultures of *J Natl Cancer Inst!* 81: 669-675, (1989).
- 4 Richie JP Jr, Nichenametta S, Neidig W, Calcagnotto A, Haley JS, Schell TD, Muscat JE. Randomized controlled trial of oral glutathione supplementation on body stores of glutathione. *Eur J Nutr.* 2015 Mar;54(2):251-63.
- 5 Rao G, Rowland K. PURLs: Zinc for the common cold--not if, but when. *J Fam Pract.* 2011;60(11):669-671.