

## Immune Power+

### Immune System Enhancer

Cow colostrum powder

Colostrum (also known as “first milk”) is a special type of milk mother mammals produce for their newborn just before giving birth. Mothers feed this milk to the newborn immediately following birth, and it is only available for a limited amount of time (typically around 3-4 days). Colostrum is densely packed with nutrients that protect and nourish the baby for the first few days of life. Since most species of mammals develop at different rates and have different nutritional requirements, the colostrum of each species has a different composition. We explain how human colostrum differs from cow (bovine) colostrum, and what you need to know about bovine colostrum supplements.

**Bovine colostrum** is a milky fluid that comes from the breasts of **cows** the first few days after giving birth, before true milk appears. It contains proteins, carbohydrates, fats, vitamins, minerals, and specific kinds of proteins called antibodies that fight disease-causing agents such as bacteria and viruses.

Human and bovine colostrum don't just vary in lactose and casein concentrations, they also contain different immune molecules and growth factors. For example, an important component of the immune system is immunoglobulins also known as antibodies. Immunoglobulins protect against bacterial and viral infections. There are many types of immunoglobulins such as IgG-class and IgA-class. A human baby and a cow calf receive these immunoglobulins from their mother differently.

#### **Immunoglobulins**

In humans, the IgG-class antibodies are transferred from the mother's bloodstream via the placenta to the fetus. Therefore, IgG-class antibodies are not found in human colostrum. This provides some degree of temporary passive immunity to the newborn against possible infectious agents after birth. In contrast, the IgG-class antibodies are not transferred from the mother cow's bloodstream across the placenta to the calf. Consequently, the calf is essentially defenseless when born unless it gets bovine colostrum. The predominant immunoglobulin in human colostrum is IgA-class. The IgA-class in human colostrum and milk has lactoferrin attached. This is believed to provide host defense against specific human pathogens. Lactoferrin also protects IgA antibodies from the effects of stomach acid and digestive enzymes



Lactoferrin help bolster your innate immunities, aka the body's first line of defense against foreign invaders. Research has demonstrated antibacterial, antiviral, and antifungal properties; lactoferrin may help stimulate the white blood cells at the mucous membranes of the digestive tract *and* reduce the effects of certain bacteria. As a result, lactoferrin may play an important role in the development of beneficial intestinal flora (the microbiome) and the optimization of the immune system.

### **SUMUL Bovine Colostrum in General**

**It is also having mean concentration of fat soluble Vitamins Lie Retinol, Topopherol ,Beta-carotene where water soluble Vitamins are Niacin, Thaiamin, Riboflevin, Vitamin B, Pyridoxal, Pyridoxamine, Pyridoxine and Mean concentration of selected minerals in mg/kg Ca-4716,P-4452,Na-108,K2845,Zn,38,Fe5.3,Cu 0.3,S-2595,Mn-0.1**

**Immunoglobulin are natural antibodies by nature in Bovine Colostrum; In general IgG-A(Alpha) helpful in improve Muscus membrane, Respiratory system. It is also remain in our nasal and saliva. IgG(Gama) is mainly 75% of total Protein which improve overall immune for human being, it was found that in the treatment of malaria it is reached in placenta of pregnant women. IgG-M is fights agains microbes, IgD(Delta) is work as receptor where IgE(Epsilon) works against Allergy, Asthama, Acsima.**

<b>Freezing Point</b>	<b>0.6 C</b>
<b>Boiling Point</b>	<b>112 C</b>
<b>pH</b>	<b>6.8</b>
<b>Energy</b>	<b>120 Kcal</b>
<b>Total Protein</b>	<b>7.8g</b>
<b>Lactose</b>	<b>1.2g</b>
<b>Albumin</b>	<b>2.4g</b>
<b>Globulin</b>	<b>1.7g</b>
<b>Gamma Globulin</b>	<b>1.0 mg</b>
<b>All above report of Colostrum Powder derived from Cow</b>	

## Benefits of Lactoferrin in Bovine Colostrum

Lactoferrin is a protein found in both cow (bovine) milk and human milk. The colostrum that mammalian mothers produce after a baby is born contains approximately seven times the amount of lactoferrin found in mature milk, according to WebMD. Colostrum is the first food that a mammalian mother produces after a baby is born, and the lactoferrin in colostrum helps protect a newborn against infections caused by harmful microbes. Lactoferrin help regulate the absorption of iron in the intestine and the delivery of iron to the cells. It is one of the transferrin proteins that transfers iron to the cells and controls the level of free iron in the blood and external secretions. In its role as an iron-binding protein, lactoferrin has the potential to safeguard the body against bacteria by depriving bacteria of essential iron (needed for bacteria to replicate); it also helps to destroy the cell walls of some bacteria.

## How Can People Reap the Benefits of Lactoferrin?

Human colostrum has the highest concentration of lactoferrin, followed by human milk, and then cow's milk. Furthermore, lactoferrin is found throughout the human body in the secretions of the eyes, nose, respiratory tract, and intestine. Published studies examining lactoferrin as a supplement have shown beneficial effects on immunity and maintaining a healthy level of beneficial bacteria in the gastrointestinal (GI) tract. Because lactoferrin has the potential to sequester iron, "bad" gut bacteria are unable to colonize (replicate in large numbers). And when lactoferrin binds to bacteria, viruses, and fungi, it may help to manage their numbers.

Lactoferrin also may be used in conjunction with specific strains of friendly bacteria. Together, lactoferrin and friendly bacteria have been shown to help boost the immune function. Some studies have indicated that the anti-pathogenic benefits of lactoferrin may be enhanced when it is used in combination with probiotics ("friendly bacteria"). Lactoferrin and probiotics together may deliver a synergistic effect that helps to modulate immune responses, alert the white blood cells of harmful microbes, and stabilize colonies of friendly bacteria.

## **Lactoferrin Help Individuals of All Ages**

**The potential benefits of lactoferrin include the following:**

- **Stimulating the immune system( Cold, Cough, Digestion, improve bio availability of nutrients and improve blood flow)**
- **Preventing damage related to aging**
- **Promoting beneficial bacteria in the intestinal tract**
- **Regulating bacteria, viruses, and fungi (antibacterial, antiviral, and antifungal agent)**
- **Regulating iron metabolism**
- **Transporting iron as needed into the bloodstream and to the cells**
- **Acting as an antioxidant**
- **Transporting vitamin B12 in the body**
- **New study found that it is useful in Respiratory system problem, Throat soreness, Joint pain and rejuvenate of body cells.**
- **It Contains Zinc , Oligosaccharides, Vitamin A and Folic acid with stimulate effects of more than 300 enzymes.**
- **It increases white blood cell (Monocytes) and T-cells.**

- **Safe, Effective Supplement:** Immune Power Plus is non-allergenic and has no side effects. The supplement can be consumed in any quantity and is safe for adults, children, and pets. Sovereign Laboratories obtains its colostrum from pasture-raised Grade A dairy cows that are certified to be healthy and not supplemented with rBST (synthetic growth hormone). Sovereign Laboratories only accepts colostrum after a cow's first milking and ensures all colostrum is free of antibiotics and hormones for unmatched quality and safety.
- **Balances and Improves Natural Immune Function:** Immune Power Plus contains powerful, natural bioactive that assists in balancing immune response. It has the potential to help bring the body back into balance if it suffers an improper immune response due to autoimmune conditions or allergies.
- **Contributes to Growth and Regeneration of Body Systems:** Immune Power Plus may help stimulate bone, brain, muscle, nervous tissue, and skin cell regeneration. As such, it represents a potential all-natural solution for athletes, seniors, and people of all ages who may need a little extra help increasing lean muscle tone and a more youthful appearance.  
Clearly, Immune Power Plus is a colostrum product unlike any other on the market today. It contains lactoferrin, a powerful protein that offer a number of potential immune and digestive benefits, as well as many other GI- and immune-boosting natural components. Perhaps most important, Immune Power Plus is the only colostrum product that has been shown in clinical trials to potentially provide assistance for GI, immune, and athletic performance.

For those who want to include lactoferrin and other powerful natural bioactive in their diet, Immune Power Plus is ideal. The product is safe for people of all ages and easy to incorporate into one's daily diet.