

# Laktoferrin with Colostrum



Item # 51950  
90 Vegetarian Capsules

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## The Possible Benefits of Laktoferrin with Colostrum, a Dietary Supplement

- May enhance and modulate immune activities\*
  - May support gastrointestinal microbial-balancing activities\*
  - Supports iron binding and transport, and protective antioxidant activity\*
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### Description

**Laktoferrin with Colostrum** contains colostrum, lactoferrin and lysozyme. Our colostrum is collected within the first 6 to 12 hours from the first milking after giving birth, of BSE-free cattle, which are grain and pasture fed, raised primarily in South Dakota, Minnesota and Wisconsin. The lactoferrin is obtained from the milk of range-grazed cattle in the Netherlands, raised without the use of hormones, antibiotics and pesticides, with 95% purity and 77.5% to 80.5% iron-binding capacity.

**Colostrum** is the fluid produced from the mother's breasts during the first few days after birth, before the first milk is produced. Colostrum supplies nutrients, growth factors, and antibodies that start development of passive immunity in the breast-fed newborn.\* Supplemental colostrum is thought to have immune-stimulating and microbial-balancing properties.\* The high amount of growth-factors in colostrum may enhance bodily energy and exercise performance as well.\*

Many substances found in bovine colostrum have been shown to be similar or identical to those found in human and other mammalian colostrum.\* Bovine colostrum contains three to four times more protein than does regular cow's milk, and most of this protein is immunoglobulin-rich whey protein. Colostrum contains many components that support the immune system, including insulin-like growth factors IGF-1 and IGF-2, transforming growth factor beta (TGFbeta), epidermal growth factor (EGF), lactoferrin, alpha-lactalbumin, beta-lactoglobulin, immunoglobulins IgG, IgA and IgM, nucleotides, gamma-interferon, orotic acid, enzymes, and vitamins.\* In addition, colostrum may contain colostrinin, also known as proline-rich polypeptide (PRP), another potential immunomodulator.\* Studies suggest that the combination of specific and nonspecific immunomodulatory components may

together enhance protection and microbial balance of the gastrointestinal tract.\*

**Lactoferrin** is a peptide glycoprotein found in small amounts in colostrum, as well as in mammalian exocrine secretions and in neutrophil granules during inflammation. Lactoferrin has important iron-binding, microbial-balancing, antioxidant and immunomodulatory activities.\* The potential microbial-balancing activity of supplemental lactoferrin is likely primarily due to its ability to strongly bind iron, because many undesirable microbes depend on iron for their growth.\* Lactoferrin also may help inhibit these microbes from attaching to the intestinal wall.\* It also produces the bioactive peptide lactoferricin, which may enhance microbial-balancing effects.\* It appears that most of the activity of lactoferrin supplementation occurs in the gut.\*

Lactoferrin has powerful immunomodulatory properties.\* Receptors for lactoferrin are found in intestinal tissue, on some bacteria, and on immune system cells such as monocytes, lymphocytes and neutrophils. Lactoferrin appears to promote the growth and differentiation of T lymphocytes, and help regulate cytokines and lymphokines, such as tumor necrosis-alpha and interleukin-6.\* Because free iron can generate reactive oxygen species via the Fenton reaction, lactoferrin's iron-binding properties potentially make it a powerful antioxidant substance.\* This could also further enhance immunomodulation.\*

**Lysozyme** is an enzyme found in tears, saliva, egg whites and in the lysosomes of phagocytic cells. It is known to hydrolyze the 1,4-beta links between N-acetylmuramic acid and N-acetylglucosamine, thus cleaving an important polymer of the cell wall of many bacteria.\*

\*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.

Serving Size: 1 capsule  
Servings Per Container: 90

**Amount Per Serving:**

Lactoferrin (Bovine)	100 mg
Colostrum (Bovine)	250 mg
Lysozyme (Egg White)	5 mg

Other ingredients: Hydroxypropyl methylcellulose, cellulose, L-leucine.

**Suggested Use:** As a dietary supplement, 1 to 4 capsules at night before bed, or as directed by a healthcare practitioner.

**References:**

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