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Quality Colostrum from America's Heartland

Colostrum is an exceptional nutritional substance, produced by mothers for their newborns, that supports and nourishes the immune system. It provides a perfect combination of immune and growth factors including immunoglobulins, lactoferrin and insulin-like growth factor 1 (IGF-1), amino acids and other important nutrients. For centuries colostrum has been used by many cultures for supporting health and wellness. With current research and technology, quality colostrum can be produced with precision to ensure a pure and potent product.

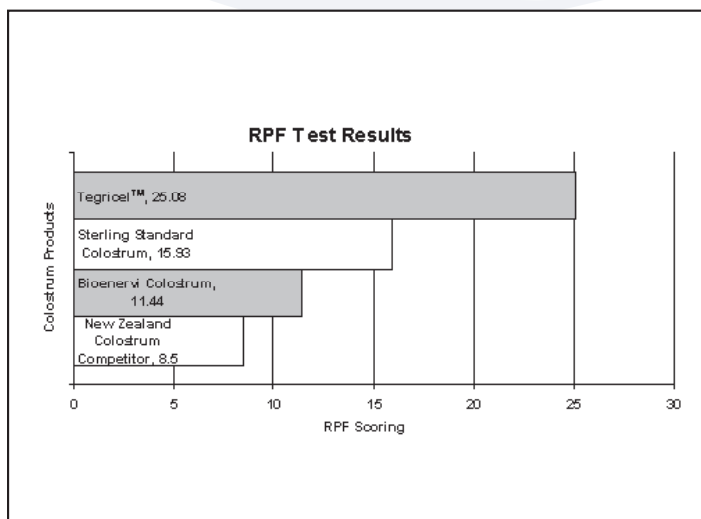
Tegricel® Colostrum is a novel nutraceutical designed to enhance general immune function and to help reduce the annoying and sometimes debilitating effects of irritable bowel syndrome (IBS) and inflammatory bowel disease (IBD), including Crohn's, celiac and ulcerative colitis. It has been suggested to help heal and repair damaged tissue from the use of NSAIDs. Tegricel® Colostrum is also beneficial in other conditions that cause intestinal damage.

What Makes Tegricel® Colostrum Different

All Tegricel® Colostrum comes from cattle raised in the US and is produced from healthy, nutritionally-supplemented cows on USDA and FDA certified dairy farms. These cattle are carefully fed a scientifically-designed diet that contains the proper balance of legumes and grasses along with minerals and trace minerals to ensure consistently high potency colostrum.

HPLC

High Performance Liquid Chromatography is a technique used in biotechnological research as well as for the pharmaceutical and nutraceutical industry. Modern HPLC has many applications including separation, identification, purification, and quantification of various compounds. HPLC is used to perform the optimum analysis of compounds in each batch of colostrum to ensure efficacy.



RPF - Repair And Protection Factor

RPF is a novel analytical method that allows for the evaluation of a product's bioactive properties as it relates to the repair of damaged cells and the protection of healthy cells.

Tegricel® has an RPF score greater than 3 times the leading New Zealand colostrum supplier and has an RPF Score greater than 2 times that of other leading colostrum products from Australia.

Supplement Facts

Serving Size 2 capsules
Servings Per Container 30

Amount Per Serving	% Daily Value
Colostrum (as Tegricel®) [minimum 40% IgG]	1 g *

*Daily Value not established.

Other Ingredients: Cellulose (capsule), silicon dioxide.

Contains milk.



Colostrum has been shown in studies to*:

- Enhance the digestive system
- Build lean body mass
- Support the immune system
- Improve vitality and athletic performance
- Stimulate the normal growth, regeneration and repair of muscle
- Repair skin collagen
- Repair bone cartilage and nerve tissue

Components of Colostrum	Antiviral	Antifungal	Anti-bacterial	Enhance Phagocytosis	Macrophage Activation	Immune Stimulator	Immune Modulator	Antibody Production	T- and B-Cell Growth	T-Cell Activation	Tissue Repair
Growth Factors						X	X				X
Immunoglobulins	X	X	X	X	X	X	X				
Interferon- γ	X	X	X		X	X			X		
Interleukin-1					X					X	
Interleukin-2						X	X	X	X		
Interleukin-6	X	X	X			X	X	X	X		
Lactoferrin	X	X	X				X				
Lactoperoxidase		X	X								
Lysozyme		X	X								
PRP						X	X				

Components Overview

- **Growth Factors:** Proteins that bind to receptors on the cell surface with the primary result of activating cellular proliferation and/or differentiation.
- **Immunoglobulins:** Also known as antibodies, their job is to neutralize antigens, activate complement and promote leukocyte-dependent destruction of microbes.
- **Interferon- γ :** Its functions are important in cell-mediated immunity against intracellular microbes. It is predominantly responsible for the antiviral activities of the interferons.
- **Interleukin-1:** One of the most important immune response modifying interleukins. The predominant function is to enhance the activation of T-cells in response to allergens.
- **Interleukin-2:** Promotes the proliferation and differentiation of other immune cells and potentiates apoptotic death of antigen-activated T-cells.
- **Interleukin-6:** Principle function is to augment the responses of immune cells to other cytokines. It is also the primary inducer of the acute phase response in the liver.
- **Lactoferrin:** Binds iron and competes with microorganisms for it. Found to have antibacterial, antiviral, antifungal, anti-inflammatory, antioxidant and immunomodulatory activities.
- **Lactoperoxidase:** Kills bacteria by oxidative mechanisms. When combined with hydrogen peroxide and thiocyanate, both of which are naturally distributed in human tissues, it forms a potent natural antibacterial system.
- **Lysozyme:** Protects us from bacterial infection. It is a small enzyme that attacks the protective cell walls of bacteria.
- **Proline-Rich Polypeptide (PRP):** Shown to support the thymus gland, and may help calm an overactive immune system and stimulate an underactive immune system.

Research Summaries

- Studies have shown that gastric and small intestinal injury caused by indomethacin can be reduced by colostrum - *GUT 1999; 44: 653-658*
- Immune factors and growth factors are the primary components of colostrum. Bovine colostrum performs the following roles in the protection of the gastrointestinal tract: maintains integrity of mucosa, protects against intestinal permeability, aids local immunity, systemic immunity and antigen handling. It has also been used in treatment as well as prevention of NSAID-induced gut injury. - *Indian J Pediatr. 2005 Jul; 72(7):579-81*
- Insulin-like growth factor, IGF-I, has been investigated as a potential treatment modality for a range of acute bowel disorders in which accelerated intestinal repair and epithelial regrowth are desirable. - *J Nutr. 2003 Jul; 133(7):2109-12*
- Various bioactive and regulatory components, including IGF-I, exert intestinal effects. Colostrum extract, which contained bioactive components, such as IGF-I, enhanced intestinal villus size. - *Journal of Dairy Science Vol. 86, No. 5, 2003*

Recommended Use

- As a dietary supplement, take two capsules per day, or as directed by a health care practitioner.

**For a list of related references, please visit:*

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1JGrTaw89pxkK/collections/49632699/public/>

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