

*Boost calves' immune systems
during periods of stress*



**Vita Plus
Calf Program**

Growing Tomorrow's Herd

INNER SHIELD

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Support calves' immune systems during stress

Inner Shield is a highly palatable supplement that helps support the calf's immune system during periods of stress when it is suppressed and more susceptible to disease. Many bacteria and viruses that infect calves are enteric, which cause intestinal damage and result in diarrhea and dehydration. Key ingredients are delivered in an easy-to-use formula that can be added to milk replacer or pasteurized whole milk.

Plasma and serum

Animal plasma and serum contain a complex mixture of proteins, including globulin proteins, enzymes, growth factors, peptides and albumen protein. They have been shown to significantly reduce disease symptoms associated with *Cryptosporidia*, *E. coli* and Coronavirus in calves. Globulin proteins in plasma and serum specifically escape gastric and intestinal degradation and move to the gut where they assist in the immune response against intestinal pathogens.

Biosecurity: To produce plasma proteins, blood is collected only from healthy animals that passed an official veterinary inspection. The liquid plasma is exposed to high temperatures for short times (spray drying) in order to remove water, inactivate microorganisms (viruses and bacteria) and stabilize the powder. The dried plasma then undergoes microbiological testing in a laboratory.

Bio-Mos®

Bio-Mos consists of non-digestible, complex sugars that have been shown to manipulate the bacterial population of the gastrointestinal tract in young calves. The competitively bind gram-negative bacteria, preventing their attachment to the intestinal mucosa and colonization of the gastrointestinal tract.

Essential oils

The essential oils found in Inner Shield are composed of natural plant extracts specifically chosen for young animals. They have been shown to stimulate appetite, improve feed efficiency, and enhance and stabilize the digestive microbial population.

Feeding instructions

Add 15 grams of Inner Shield in 2 quarts of milk replacer or pasteurized whole milk. For best results, feed twice daily for the first three weeks during periods of stress, including receiving, weaning and environmental stress.