

# Calves are our future herd and getting them off to a healthy start is our biggest priority

Calves are presented with many immune system challenges when they enter the world and we have put together a supplement for milk replacer or whole milk that helps address many of those challenges. Our goal was to create a product line that helps to provide protection through different mechanisms to the baby calf so they have the best chance of growing up to be a productive member of our herd.

#### **Researched Ingredients from Well-Know Suppliers**

We didn't just put anything and everything into the CertiStart Calf Line. We have worked with our suppliers to include ingredients that have cutting edge technology, high quality control standards, and proven effectiveness. We believe that our calves should only get the best!

Plasma – Provides IgG and IgA immunoglobulins. Proven to reduce scours, improve healing of gut tissue, reduce treatments, enhance gains and reduce mortality or morbidity associated with crypto, coronavirus, and E coli.

<u>Colostrum</u> – Natural source of IgG and other unidentified growth factors. Helps support the calf's natural defense system by bathing the intestine with functional proteins.

Egg protein - Contains IgY immunoglobulins that are resistant to 9 know strains of pathogenic bacteria. Promotes immunity.

Yeast Cell Wall – Binds a broad spectrum of major pathogens (E:coli, Salmonella) due it is high content of mannanoligosaccharides. This reduces these pathogens from attaching to the intestine mucosoa.

Probiotic Pack - Works to control pathogenic bacteria and fungi by inhibiting their growth. Selected for its ability to defend against clostridia species.

Yeast Extract - Improves development of the intestinal system. Results in longer intestinal villi which improves the absorptive capacity of the intestine.

<u>Plant Extracts</u> – Blend of various botanicals. Work to increase enzyme secretion, enhance gut environment, improve liver function, provide a bactericidal effect in the gut, act as an antioxidant, and stimulate intake.

<u>Vitamins and Trace Minerals</u> – Supplemental source of Vitamins A, D, & E, along with organic and inorganic sources of zinc, manganese, copper, iron, and selenium that are often deficient in whole milk.

### Phase 1

Designed to be used for the first 10-14 days of life and provide the most protection to the calf. Can also be used as a supplement for sick calves as an all natural supplement. Includes: Plasma, Colostrum, IgY's from egg protein, Yeast Cell Wall, Probiotic Pack, Yeast Extract, and Plant Extracts.

**Feeding Rate:** Certi-Start Phase 1 Feeding Program Directions for use: Feed one (1) ounce per feeding per calf from day one to day 14. For challenged calves feed one (1) ounce per feeding per calf for 3-5 days.

### Phase 2

Designed to provide longer coverage until weaning after Phase 1 or for the entire milk feeding phase. Includes: Yeast Cell Wall, Probiotic Pack, Yeast Extract, Plant Extracts, and vitamins and trace minerals.

**Feeding Rate:**Certi-Start Feeding Program Directions for use: If using the Certi-Start Phase 1, feed Phase 2 from day 15 to weaning at one-half (1/2) ounce per calf per day. If not using the Certi-Start Phase 1, feed Certi-Start Phase 2 from day one to weaning at one-half (1/2) ounce per calf per day. For challenged calves feed one-half (1/2) ounce per calf per feeding for 3-5 days.



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