

ESTABLISH™

CalfBEL™



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Develop.
Strengthen.
ESTABLISH™

Harbor the health
of your calves with
ESTABLISH CalfBEL,
a two-tier calf
probiotic program
from Perdue
AgriBusiness®



Science based. Research driven.®

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ANIMAL NUTRITION

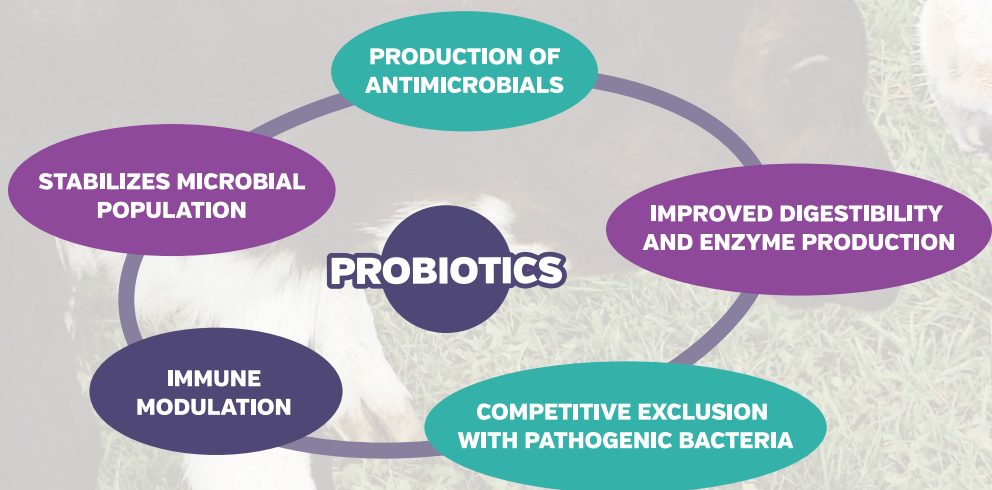
ESTABLISH™ CalfBEL™

Harbor the health of your calves with ESTABLISH CalfBEL, a two-tier calf probiotic program from Perdue AgriBusiness®

Newborn and growing calves are faced with many stressors, beginning with birth then maternal separation, new environments, extreme temperatures, and disease challenges. Their immature immune system and developing intestinal tract make a calf more vulnerable to disease and mortality, which can be a direct cost to the producer and have long term effects on cow performance.

Probiotics seed a calf's intestinal tract with healthy microbiota to optimize their immune response and limit pathogenic challenges, making them less susceptible and stronger to handle the pressures of new life.

ESTABLISH CalfBEL is a two-tier program designed to be continuously used through the life stages of a pre-weaned calf. CalfBEL Newborn-O provides a specifically formulated blend of bacteria for calves, beginning at birth to 48 hours old. Once a young calf begins milk or milk replacer feedings, CalfBEL Young-O is the continued treatment for increased nutrient digestibility and improved intestinal function.



Our CalfBEL products contain a unique selection of different bacteria, selected for their specific roles within the intestinal tract. The grouping of bacteria into a single product has a complementary effect, so that the strengths of each species contribute to the overall effectiveness of the probiotic in early calf development.

ESTABLISH™ CalfBEL™ Newborn-O™

Bacteria	Role
<i>Enterococcus faecium</i>	Produces antimicrobial compounds, reduces intestinal pH and can enhance nutrient transport
<i>Lactobacillus casei</i> KE01	Inhibits pathogens, reduces fecal ammonia and sulfide concentrations, and has an immunomodulatory effect
<i>Bifidobacterium bifidum</i>	Stimulates immune maturation, regulates immune response, increases intestinal integrity, supports colonization of other beneficial bacteria
<i>Bifidobacterium longum</i>	Produces antimicrobial compounds, can inhibit viral replication, produces digestive enzymes, supports colonization of other beneficial bacteria
<i>Lactobacillus acidophilus</i>	Produces digestive enzymes, supports colonization of other beneficial bacteria (specifically <i>Bifidobacterium</i>) produces antimicrobial compounds

Gut microbiota play an important role in the development, nutrition, and health and can vary greatly between calves due to different sources of microorganisms colonizing the gut. Stress, the lack of immunocompetence, and immature intestinal tract and microbiota are compounded making the calf more susceptible to disease and mortality.

ESTABLISH™ CalfBEL™ Young-O™

Bacteria	Role
<i>Enterococcus faecium</i>	Produces antimicrobial compounds, reduces intestinal pH and can enhance nutrient transport
<i>Bacillus subtilis</i>	Produces antimicrobial compounds (targets <i>Clostridium perfringens</i>), produces digestive enzymes, support the colonization of beneficial bacteria
<i>Bacillus licheniformis</i>	Produces digestive enzymes and produces antimicrobial compounds
<i>Lactobacillus casei</i> supernatant	Contains prebiotic and metabolites with antimicrobial properties

To begin weaning, calves are limited in their intake of milk or milk replacer to encourage the consumption of grain. Through this transition, the calf could become susceptible to leaky gut syndrome, leading to inflammation and a reduction in calf performance (Figure 1).

CalfBEL Young-0 contains *Bacillus*, a genus of bacteria known to support the growth of other beneficial bacteria within the intestinal tract and produce digestive enzymes. Having a *Bacillus* and *Enterococcus faecium* based probiotic can help the initiation of beneficial bacterial and improve digestion during the stressful transition from liquid to grain based diets.

Figure 1

Restricted Milk Feeding

Switching from a liquid based diet to grain can limit feed intake.

Leaky Gut

Reduction in feed reduces gut barrier function. Different feed and feeding patterns can change the bacterial populations.

Inflammation


The inflammatory response costs energy that is not being put into performance.

Our CalfBEL line of products benefit pre-weaned calves by stimulating immune function, increase nutrient digestibility, stabilize the microbiome, and limit pathogenic colonization. Perdue AgriBusiness is fully equipped to help harbor the health of your calves, for a stronger, healthier herd from the very beginning!



AgriBusiness[®]
ANIMAL NUTRITION



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