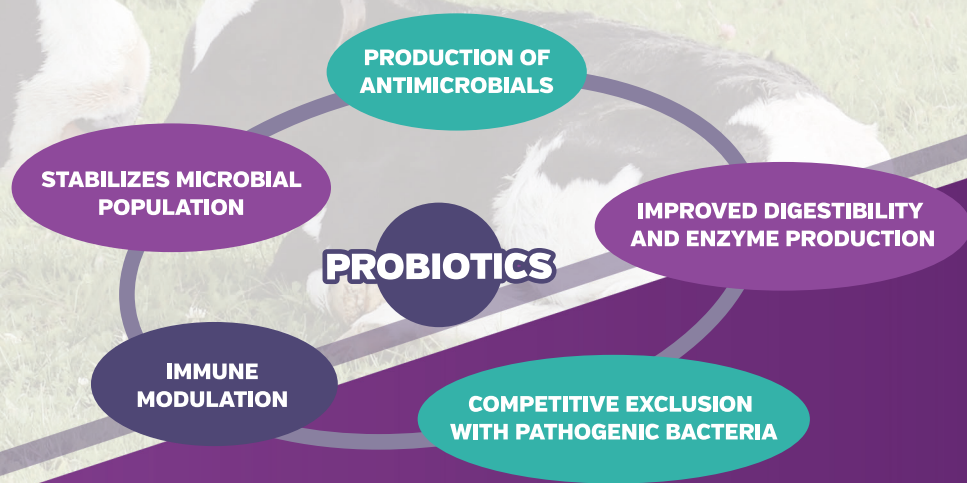


ESTABLISH™ CalfBEL™ Defend-O™

Harbor the health of your calves with ESTABLISH CalfBEL from Perdue AgriBusiness®



Weaning is a stressful period in a calf's life. It is associated with diet changes, social restructuring during a critical growth period, and rumen development. The transition from a liquid based diet to a grain based diet can cause increases in cortisol (the physiological stress hormone) which can weaken the immune system, and reduce feed intake. These diet changes and the reduction of feed intake can affect stability of the bacterial population, or microbiota, in the intestinal tract. This time of weaning to 1 year of age is a critical period for microbial stability, where the bacteria are maturing and making up the adult microbiota. 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 production.

CalfBEL Defend-O contains five different bacteria, selected for their specific roles within the intestinal tract. This 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.


CalfBEL Defend-O benefits the calf during weaning by stimulating immune function, improving intestinal function, increasing nutrient digestibility, stabilizing the microbiome and limiting pathogen colonization. A healthier calf leads to improved growth during all life stages and overall a more productive, efficient mature cow.

Harbor the health of your calves with the help of Perdue AgriBusiness, for a stronger, healthier herd from the very beginning!

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



AgriBusiness®
ANIMAL NUTRITION

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