

*Potent direct-fed microbial  
to promote intestinal integrity  
and function*



## **Vita Plus Calf Program**

*Growing Tomorrow's Herd*

# **LIBERATOR**

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## *Promote calf intestinal integrity and function*

Liberator is a potent prebiotic and probiotic milk or milk replacer additive for nursery calves. Its blend of hydrolyzed yeast cell wall, live yeast, and three strains of *Bacillus subtilis* microorganisms promote intestinal integrity and function by supporting intestinal microbial balance in dairy calves.

- **Hydrolyzed yeast cell wall** material is comprised primarily of mannan oligosaccharides (mannans or MOS) and glucans. When MOS is present, it increases intestinal integrity and function by modifying intestinal microflora.
- **Beta-glucans from live yeast** are complex carbohydrates that are recognized by immune cells within the intestinal mucosa. This recognition “primes” the immune system. In addition, *in vitro* studies have demonstrated that live yeast cells adhere to *Cryptosporidium parvum* and *E. coli*.
- ***Bacillus subtilis*** is a live, robust, spore-forming microorganism. The strains used in Liberator produce proteinaceous substances that are inhibitory to *Clostridium perfringens*, *Salmonella* spp., and *E. coli*. Inhibition of *Staphylococcus*, *Listeria*, *Vibrio* and *Candida* species have also been observed. *B. subtilis* in Liberator is compatible with ionophores and neomycin-oxytetracycline.

In a 100-calf field study, supplementing calves with Liberator decreased antibiotic treatment rate, decreased incidence of severe scours and increased weight gain during the first 14 days of age.

## *Additional benefits*

Liberator also contains B-vitamins to stimulate intake and energy metabolism. Liberator is fortified with vitamin C, an antioxidant, to enhance calf immune function.

## *Recommended uses*

- Stressed or challenged calves
- During seasonal changes
- During calf backgrounding before moving to the automated calf feeder

## *Easy to feed*

Liberator is sold in cases of six 1.6-lb individual packets with six scoops per case.

Add one level scoop (10 g) to whole milk or milk replacer twice daily for three to five days starting the next meal after colostrum or prior to and during stress. Each packet contains enough Liberator to dose 12 calves for three days and each case contains enough to treat 72 calves for three days.