

Beef Culture® Defend

BLEND & PACKAGED IN AUSTRALIA UNDER LICENCE AGREEMENT WITH CHR. HANSEN INC.



Beef Culture Defend® is a direct fed microbials (DFM) that consists of a patented combination of *Lactobacillus animalis* and *Propionibacterium freudenreichii*.

It is the only DFM containing both lactic acid producing, and utilising bacteria and is the most extensively researched DFM for ruminants in the industry today. It is currently extensively fed in commercial feedlot operations in the USA, South Africa and Australia and is supported by extensive USA university research studies covering a broad spectrum of feeding regimes.

Extensive trial data confirms Beef Culture Defend's value as a non-medicated performance enhancer in ruminant animals that is a safe product to use and has no withholding period requirements.

Beef Culture Defend® is a freeze-dried DFM which will supply a minimum per head dose of 1×10^9 CFU of *Propionibacterium freudenreichii* and 1×10^9 CFU of *Lactobacillus animalis* that enhances rumen and gastrointestinal tract microbial bacteria populations enabling:

- Changes to gastro intestinal micro flora to improve intestinal health
- Enhanced inhibition of the growth of a wide range of gram negative pathogens in the small intestine, it reduces faecal shedding by the animal which results in a thinner, healthier gastrointestinal lining improving nutrient absorption and utilisation

- Improved immune system due to fewer gram negative pathogens in the intestine and circulatory system
- Reduction of lactic acidosis incidence in feedlot cattle, reducing digestive disturbances and improving performance
- Increased ruminal pH by reducing acidity in the rumen thereby increasing fibre digestibility and nutrient utilisation
- Increased propionic acid production in the rumen allowing for more efficient partitioning of nutrients into meat

Directions for use

Beef Culture Defend® is to be applied to feed rations at a rate to supply a 50mg/hd/day treatment. The culture must first be pre-dispersed in water. AAP supply, calibrate and maintain a first class dispensing system that enables accurate dispensing initiated by means of single, or multiple, remote control units that can be operated by loader or feed truck operators.

Storage

Beef Culture Defend® must be stored in a commercial freezer. Any unused open packets must be stored in a dry, sealed plastic container.