

Probios® PRECISE

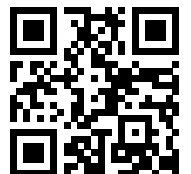
It is a science-based and research-proven combination of multifunctional probiotics for beef cattle

Research has proven that feeding **PROBIOS® PRECISE** daily

- Improves performance
- Increases the digestion of nutrients in the digestive tract
- Stabilizes gastrointestinal tract
- Reduces the burden of pathogenic bacteria
- Maintains the integrity of the intestinal wall

CHR HANSEN

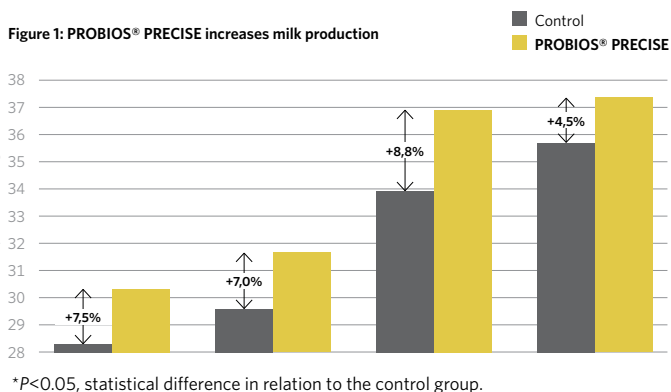
Improving food & health



PROBIOS® PRECISE increases milk production

PROBIOS® PRECISE contains 3 highly selected strains of *Enterococcus faecium* (lactic acid bacteria) in combination with live yeasts (*Saccharomyces cerevisiae*).

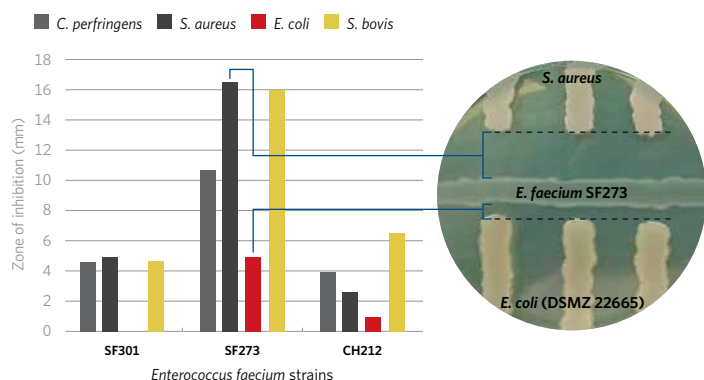
These components work together to improve the digestive function of the rumen and to competitively exclude pathogenic organisms from the digestive tract. PROBIOS® PRECISE positively influences milk production. In 4 different experiments, the average milk production increased by 7.5%.



PROBIOS® PRECISE inhibits pathogenic microorganisms

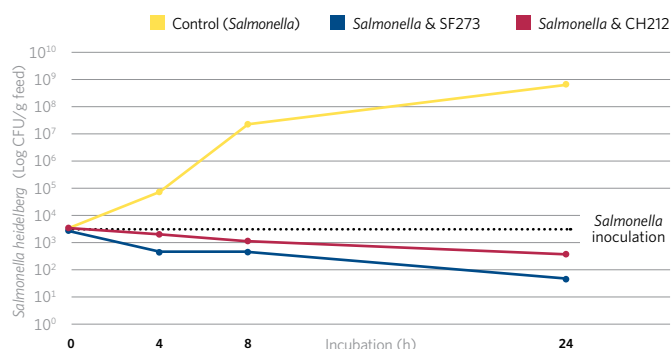
The highly selected strains of *Enterococcus faecium* from PROBIOS® PRECISE inhibit the growth of pathogenic organisms *in vitro*. The importance of the intestinal microbiota can be seen in healthier herds or in greater production potential.

Figure 2: PROBIOS® PRECISE inhibits pathogenic organisms



In addition to inhibiting the growth of pathogenic bacteria within the digestive tract, PROBIOS® PRECISE also reduces the multiplication of these microorganisms in the feed. The hygienic quality of the feed is fundamental to minimize risks of contamination through the diet. The presence of exclusive PROBIOS® PRECISE strains inhibits the growth of *Salmonella heidelberg* by up to 99.9% (Figure 4) in feed samples exposed to room temperature.

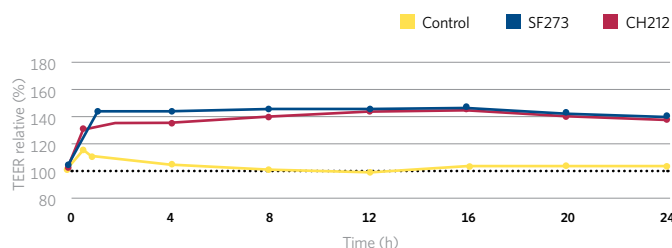
Figure 3: Reduction in the growth of Salmonella heidelberg (99.9%) caused by the presence of exclusive strains to E. faecium (CH212 and SF273).



PROBIOS® PRECISE increases the integrity of the intestine

The bacterial strains in PROBIOS® PRECISE favor the union of intestinal cells, preventing the passage of pathogenic bacteria and toxins into the bloodstream. Improving the structure of the intestinal wall means reducing infections and the energy loss associated with the immune response. The positive effect of PROBIOS® PRECISE on the integrity of the intestinal wall was measured by passing the electric current through a film of intestinal cells (Figure 5). Positive values (above 100%) indicate a closer relationship between intestinal cells and consequently less space for the passage of infectious agents and toxins.

Figure 4: PROBIOS® PRECISE maintains the integrity of the intestinal wall and reduce problems associated with intestinal damage (Leaky gut).



Storage: Store in a cool place at 2-25°C. Avoid leaving the bag open for long periods of time.
Packaging: 5 kg
Form: Powder
Shelf life: 12 months when stored according to specifications.