

# ProTernative<sup>®</sup> Milk



## LIMITING STRESS LEADS TO HEALTHIER CALVES

Stress negatively affects the immune system making a calf more vulnerable to disease. Sources of stress often include abrupt feed changes, poor ventilation, overcrowding, sudden weather changes, heat, cold, transportation, vaccination and weaning. Among all animals present on a dairy farm, the highest illness and mortality rates generally occur in pre-weaned calves.

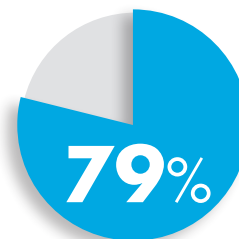
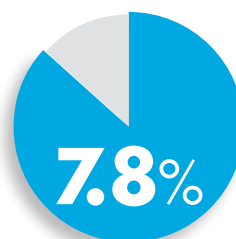
**According to the National Animal Health Monitoring System (NAHMS) the pre-weaning mortality of U.S. dairy calves is estimated to be 7.8%. Of those deaths, 79% are primarily due to digestive upsets, scours and respiratory disorders, which are all associated with stress.<sup>1</sup>**

## STARTING YOUR CALF OFF RIGHT

ProTernative<sup>®</sup> Milk is a specialized formulation of the unique, naturally occurring active dry yeast probiotic, *Saccharomyces cerevisiae boulardii* CNCM I-1079, which has been shown to help reduce the negative impact of stress in cattle.

- 💧 ProTernative Milk is specifically designed to achieve the highest level of dispersion in milk replacer, raw or waste milk fed to neonatal calves.
- 💧 A 5-gram feeding supplies 10 billion colony-forming units of *S. c. boulardii* CNCM I-1079 per head per day. When additional challenges are present a 10-gram feeding rate, which supplies 20 billion CFU of *S. c. boulardii* CNCM I-1079, is recommended.
- 💧 Each pouch of ProTernative Milk contains 600 standard feedings (5-grams per head per day).

The active dry yeast probiotic *S. c. boulardii* CNCM I-1079, has been shown to favor beneficial microbes in the lower gastrointestinal tract in multiple species, including cattle – especially during periods of stress. This proactive approach has led to lower levels of morbidity, mortality and improved average daily gain.<sup>2,3</sup>



*A comprehensive and proactive calf and heifer raising program, defined in partnership with your veterinarian and nutritionist, can lead to improved long-term health, growth and profitability of your operation.*

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## SPECIFIC FOR YOUR SUCCESS

Lallemand Animal Nutrition is a primary manufacturer that researches, develops and markets microbial strains that are specific and scientifically selected for consistency and enhancing nutritional performance. In other words, they are the right microbial strains for the right applications.

- Lallemand has a bank of more than 1,000 different strains of bacteria and yeast that drive the innovation and product development pipeline.
- The efficacy of both probiotics and prebiotics are directly linked to the strain identity, growth, manufacturing and quality-assured production processes and practices.

*Lallemand Animal Nutrition is committed to optimizing animal performance and well-being with specific natural microbial product and service solutions.*

## REFERENCES:

- <sup>1</sup> USDA. 2010. Dairy 2007, Heifer Calf Health and Management Practices on U.S. Dairy Operations, 2007 USDA: APHIS:VS, CEAH. Fort Collins, CO #550.0110
- <sup>2</sup> Keyser, SA, et. al., Effects of *Saccharomyces cerevisiae* subspecies *bouardii* CNCMI I-1079 on feed intake by healthy beef cattle treated with florfenicol and on health and performance of newly received beef heifers. J. Anim. Sci. 2007(85):1264-1273.
- <sup>3</sup> Lallemand Animal Nutrition. Unpublished. United States. 1996.

Not all products are available in all markets nor all claims allowed in all regions.  
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