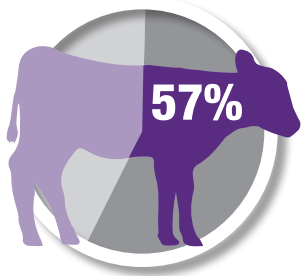




Imagine a day without scours.



57% OF CALF DEATHS ARE DUE TO DIARRHOEA—OFTEN IN CALVES LESS THAN 1 MONTH OLD.¹

DESPITE SPENDING YOUR TIME, EFFORT AND MONEY ON TREATMENTS, DEATHS FROM CALF SCOURS ARE A MAJOR CONCERN.

Even on the best-managed dairies the bacteria and crypto that cause scours lurk, waiting for the chance to infect vulnerable animals. The cost of treatment? It's not cheap. *If 50% of your calves have scours at 6 – 10 days of age, each case = \$30 per calf + vet expenses.²*



\$30 + VET EXPENSES EACH CASE

WHAT IF YOU COULD PREVENT SCOURS BEFORE IT STARTS?



IMPROVE HEALTH.

What if you could proactively improve calf health so they can better withstand attacks, including those caused by mycotoxins?



AID PRODUCTIVITY.

What if you could add nutritional insurance to every stage of calves' lives to focus on raising healthier heifer calves to focus on raising healthier heifer calves that grow quickly and join the milking herd ready to contribute at a high level?



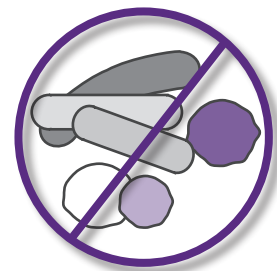
SAVE COSTS.

What if you could control calf diarrhoea before an outbreak, a much more cost-efficient solution than treating sick animals?

GOOD NEWS! RFCs PREPARE YOUR CALVES.

The Refined Functional Carbohydrates™ (RFCs™) in CELMANAX™:

- Help prepare the immune system ahead of a challenge so animals can respond quickly.
- Support optimal rumen fermentation and digestion.
- Help animals cope with their environmental challenges.



THE PROOF IS IN THE RESEARCH.

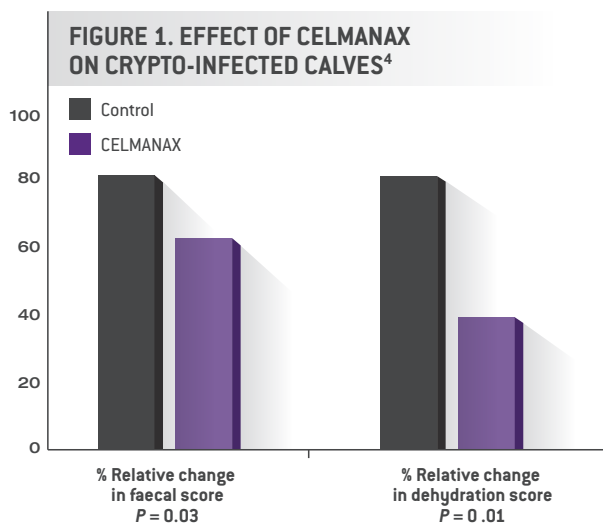


FIG. 1. One study found when calves were supplemented with CELMANAX they experienced a reduction in incidence,³ severity⁴ and duration of cryptosporidiosis.³

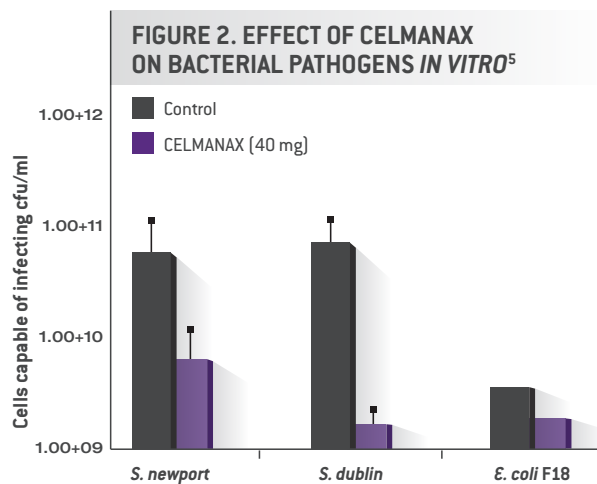


FIG 2. *In vitro* work demonstrated that CELMANAX can bind pathogens such as *E. coli* and *Salmonella enterica*.

CALF GROWTH AND PERFORMANCE.

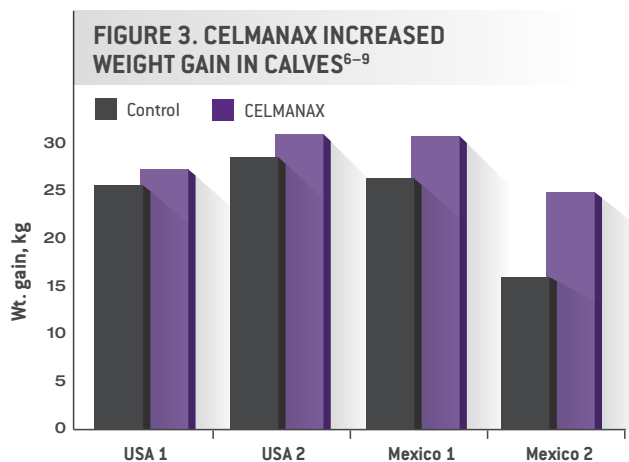


FIG. 3. Multiple on-farm demonstrations found calves fed CELMANAX improved weight gain.

- 1 Cho Y, Yoon K. An overview of calf diarrhea - infectious etiology, diagnosis and intervention. *J of Vet Sci* 2014;15(1):1-17.
- 2 Assumes \$2.50 per electrolyte dose 3x for four days.
- 3 Santos JEP. Prophylactic Feeding of Yeast Culture Enriched with Oligosaccharides from Cell Wall Extract in Calves Experimentally Challenged with *Cryptosporidium parvum*. University of Florida, 2008; report on file.
- 4 Jalukar S, Nocek JE. Evaluation of enzymatically hydrolyzed yeast *in vitro* and *in vivo* for control of *Cryptosporidium parvum* infections in dairy calves. *J Anim Sci* 2009; Vol.87, E-Suppl. 2/*J Dairy Sci* Vol. 92, E-Suppl. 1. Research Bulletin D-61.
- 5 Jalukar J, Oppy J, Holt M. *In-vitro* assay to evaluate ability of enzymatically hydrolyzed yeast containing MOS to bind enteropathogenic bacteria. Presented at the ASAS/ADSA Midwestern Section Annual Meeting, 2009. Research Bulletin 31 and Research Bulletin 39.
- 6 Dennis R, Jalukar S. Effect of CELMANAX SCP on calf performance when fed in the milk replacer and grower phase. *J Anim Sci* 2011; Vol. 89, E-Suppl. 1/*J Dairy Sci* Vol. 94, E-Suppl. 1. Research Bulletin D-72.
- 7 Research Bulletin D-71: CELMANAX SCP in dairy calf milk replacers.
- 8 Research Bulletin D-51: CELMANAX Liquid in dairy calf milk replacers.
- 9 Research Bulletin D-53: CELMANAX Liquid in dairy calf milk replacers.

To learn more about CELMANAX contact your nutritionist, veterinarian or Arm & Hammer Animal Nutrition representative or visit AHanimalnutrition.com.



**ANIMALS FIRST.
PRODUCTIVITY ALWAYS.**