

# Research Notes D-28

Arm & Hammer Animal Nutrition



## A-MAX and CELMANAX outperform competitors while improving productivity and udder health

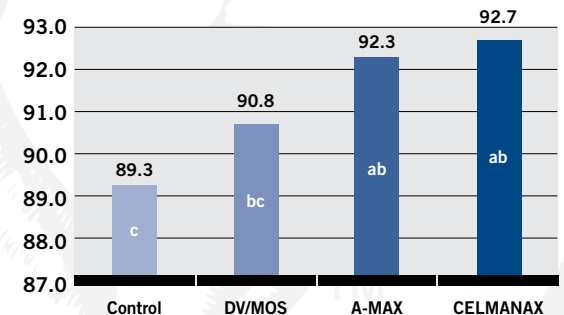
### STUDY OVERVIEW

- This trial<sup>1</sup> was conducted to determine the effects of CELMANAX™ and various yeast products on lactating dairy cattle performance
- The trial included 200 multiparous cows assigned to treatment groups based on previous lactation performance
- Cows entered the groups at calving and remained through 14 weeks postpartum
- The four treatment groups were:
  - Control
  - A-MAX™ yeast culture supplemented at 56 g/day
  - Diamond V® XP,™ manufactured by Diamond V Mills, Inc., supplemented at 56 g/day; and BioMOS®, manufactured by Alltech, Inc., at 10 g/hd/day
  - CELMANAX supplemented at 28 g/day

### RESULTS

- Cows supplemented with A-MAX and CELMANAX produced more milk, fat corrected milk and energy corrected milk than non-supplemented cows ( $P < 0.05$ )

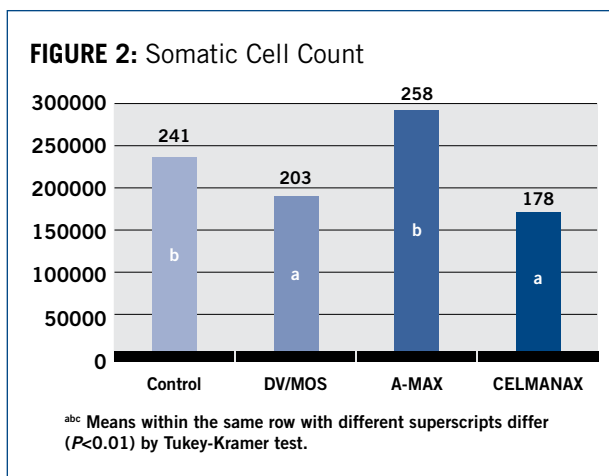
FIGURE 1: Milk Production lbs



<sup>abc</sup> Means within the same row with different superscripts differ ( $P < 0.05$ ) by Tukey-Kramer test.

THE STANDARD OF PURITY

- Milk protein percentage was higher for cows supplemented with CELMANAX™ compared to DV/MOS ( $P<0.05$ )
- Protein yields were higher for A-MAX™- and CELMANAX-supplemented cows compared to control and DV/MOS
- Somatic cell count was lower for cows supplemented with CELMANAX and DV/MOS compared to control and A-MAX. ( $P<0.01$ )



## CONCLUSION

- Cows supplemented with CELMANAX and A-MAX had higher milk production, and higher protein levels.
- Cows supplemented with CELMANAX and DV/MOS had lower somatic cell count than those on control and A-MAX diets.



**Animal Nutrition**



<sup>1</sup> Adapted from the data of: J. Nocek, Ph.D., Spruce Haven Farm and Research Center, New York and published in *J Dairy Sci* 2011;94:4046–4056.

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