

# Research Notes D-81

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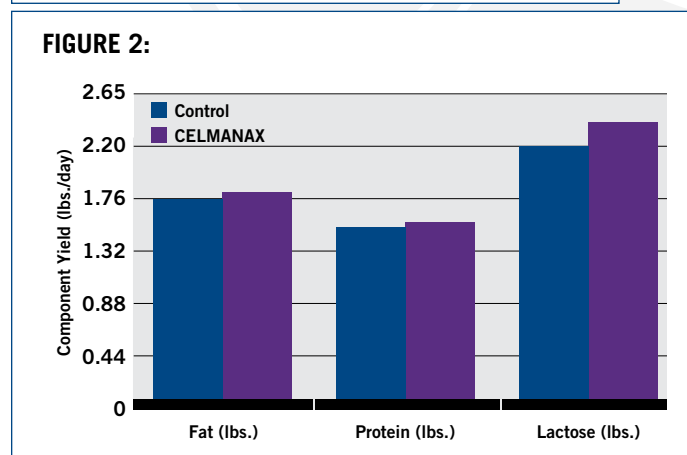
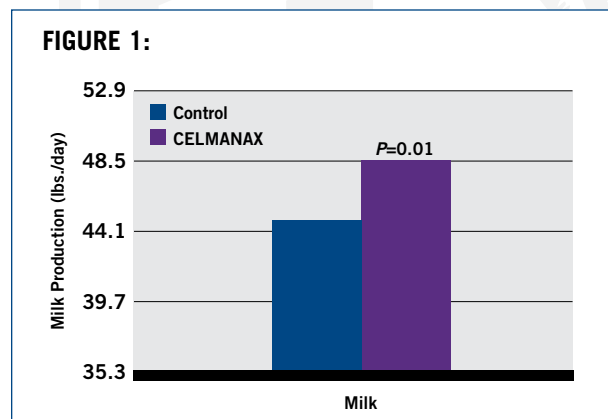
## CELMANAX improves milk production in tropical conditions

### STUDY OVERVIEW

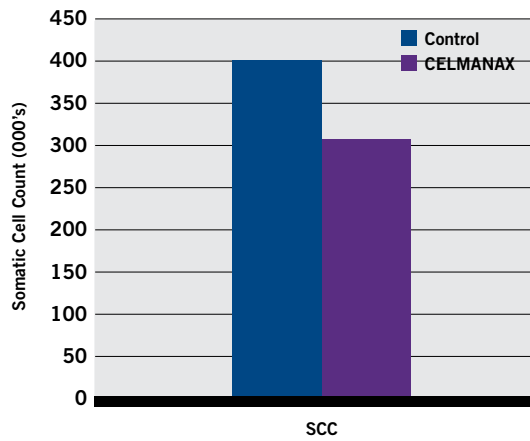
- This study<sup>1</sup> was conducted to understand the effects of CELMANAX™ fed to cross-bred cows managed in tropical pasture-based systems
- The study included 30 cows grouped by days of lactation and milk production level
- The grouped cows were randomized and supplemented with one of two treatments for 12 weeks:
  - Control
  - CELMANAX supplemented at 28 g/h/d
- Milk production and composition, body condition, somatic cell count and milk urea nitrogen were measured throughout the trial

### RESULTS

- CELMANAX resulted in an 8.75% or 3.92 lbs./day increase in milk production ( $P<0.01$ )
- CELMANAX increased component yields, but results were not statistically significant
- Somatic cell count was lower, but results were not statistically significant
- Body condition score and milk urea nitrogen were lower in cows consuming CELMANAX, but results were not statistically significant



**FIGURE 3:**



## CONCLUSION

- Results were similar to previous research despite vastly different management environments and diets
- Cows supplemented with CELMANAX™ produced significantly more milk and demonstrated numeric, but not statistically significant, improvements in component yields and decreased somatic cell count



<sup>1</sup> Adapted from the data of: Rojas-Bourrillon A, Molina A, Quesada O, Sanchez J and Elrod C.

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