

## Feeding Availa®4 Improves Health and Performance in Shipping-Stressed Beef Calves



### Study Objective

Determine the effects of feeding Availa®4 in backgrounding diets, to stressed beef calves, on calf health and performance.



### Animals

Male beef calves, 3 groups (n = 288, BW = 238 kg), purchased at sale barns and shipped to receiving facility.

### Treatments

**Inorganic:** 360, 125, and 200 mg/d Zn, Cu and Mn from sulfate sources, respectively and 12 mg/d Co from cobalt carbonate

**Availa-4:** Iso-levels of Zn, Cu, and Mn from amino acid complexes and Co from cobalt glucoheptonate



### Study Duration

42-d backgrounding period; calves assigned to paddocks with *ad libitum* access to bermudagrass hay and mineral supplement treatments fed in a corn-soybean meal carrier.



### Location

University of Arkansas, Savoy, AR, USA

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BBG- 30-59



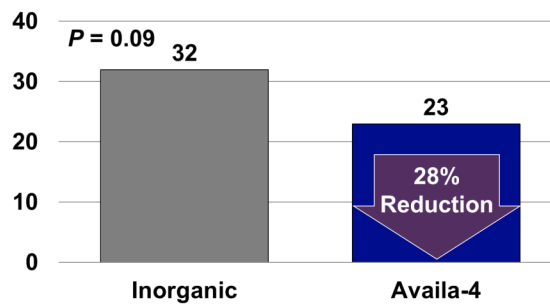
### Results Summary

#### Feeding 7 g/hd/d Availa-4 to calves:

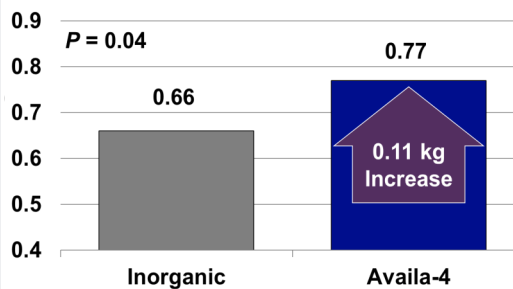
- Reduced antibiotic re-treatment rate
- Improved calf antibody titer responses to arrival respiratory vaccinations
- Increased calf ADG
- Increased calf d 42 final BW

**Feeding Availa®4 Improves backgrounding performance and immunity responses in shipping-stressed calves.**

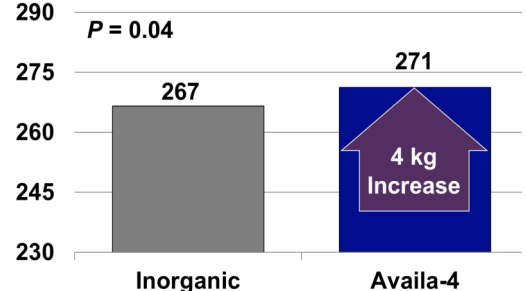
#### Antibiotic Re-Treatment Rate, % Calves Treated 2x



#### Calf ADG, kg



#### Final Body Weight, kg



**Feeding Availa®4 in backgrounding diets has an ROI greater than 8:1**

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Kegley, E. B., M. R. Pass, J. C. Moore, and C. K. Larson. 2012. Supplemental trace minerals (zinc, copper, manganese, and cobalt) as Availa-4 or inorganic sources for shipping-stressed beef cattle. 2012. Prof. Anim. Sci. 28:313-318.