

# Impact of Component® TE-G with Tylan® on performance of stocker calves

G.L. Denney, BS<sup>1</sup>; S.P. Rodning, DVM, MS, DACT<sup>1</sup>; D.L. Rankins, PhD<sup>1</sup>; J.A. Gard, BS, DVM, PhD, DACT<sup>2</sup>

<sup>1</sup>Department of Animal Sciences, Auburn University, Auburn, AL 36849

<sup>2</sup>Department of Clinical Sciences, College of Veterinary Medicine, Auburn University, Auburn, AL 36849

## Introduction

Evaluation of Component® TE-G with Tylan® (Elanco Animal Health, Overland Park, KS) on stocker calf performance.

## Materials and Methods

One hundred-nineteen stocker steers with an initial mean body weight of 590 lb (268 kg) were allotted randomly to 12 pens (11 pens with 10 calves per pen and one pen with nine calves). Every other pen was implanted with Component® TE-G with Tylan®, resulting in 60 implanted calves and 59 non-implanted calves. All calves were fed a free choice ration containing 50% pelleted peanut hulls, 25% pelleted soybean hulls, and 25% pelleted corn gluten feed. In addition, the ration contained Rumensin® (Elanco Animal Health) and a mineral/vitamin package (VMSKOWPOKE – 4®; Sweetlix, Mankato, MN). Random feed samples collected on three different occasions contained 91.51% dry matter, 12.38% crude protein, 59.72% neutral detergent fiber,

and 44.51% acid detergent fiber. Calves were weighed approximately every 30 days for a 90 day trial.

## Results

One non-implanted calf died as a result of interstitial pneumonia and another non-implanted calf was removed from the study due to recurring bloat. Of the implanted calves, one calf died due to perforating abomasal ulcers and another died as a result of ulcerative cystitis and bladder perforation. Average daily gain for non-implanted steers was 2.69 lb (1.22 kg)/day, compared with 3.11 lb (1.41 kg)/day for implanted steers ( $P < 0.0001$ ). Dry matter intake did not significantly differ between groups; 23.3 lb (10.6 kg)/day for non-implanted steers and 24 lb (10.9 kg)/day for implanted steers.

## Significance

Component® TE-G with Tylan® significantly improved average daily gain in stocker calves over the course of a 90 day feeding trial.