



Effect of Increasing Availa® Zn Supplementation on Performance of Feedlot Cattle Fed Ractopamine

ZINPRO®

Study Objective

Evaluate effects of feeding increasing proportions of supplemental Zn from Availa® Zn in combination with ractopamine hydrochloride (RAC) on performance and carcass characteristics of finishing steers.

Animals

42 crossbred Angus steers (380 kg); daily individual

Treatments

Control: Dry-rolled corn-based diet supplemented with 60 mg Zn from ZnSO4 /kg DM

Availa Zn30, 60, or 90: Control diet supplemented with 30, 60 or 90 mg Zn from Availa-Zn/kg DM; supplemented with RAC last 28 d

Study Duration

Pre-RAC Period: 86 d
RAC Period: 28 d

Location

Iowa State University, Ames, IA, USA



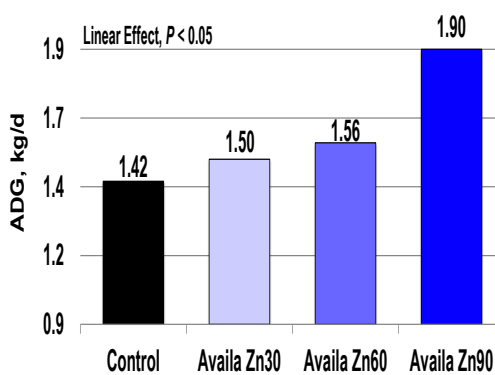
Results Summary

Steers fed increasing levels of Availa® Zn with RAC had:

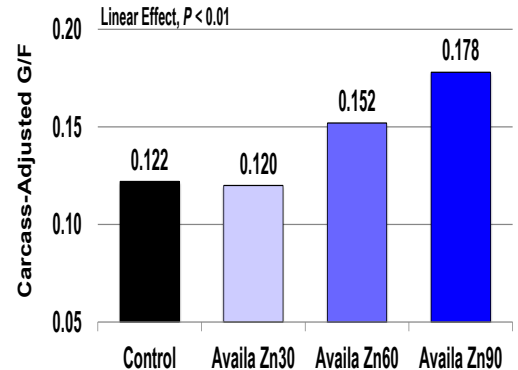
- ✓ Greater final body weight
- ✓ Decreased % KPH fat; lowest values among steers fed 60 ppm Zn from Availa Zn
- ✓ Lower plasma haptoglobin concentration
- ✓ Decreased serum interleukin-8; lowest concentration among steers fed 60 ppm Zn from Availa Zn

Feeding 60 or 90 ppm Zn from Availa® Zn enhanced repartitioning effects of RAC, by increasing proportion of lean muscle and reducing carcass fat composition, while mediating the apparent inflammation response.

Availa Zn with RAC Increased ADG



Availa Zn with RAC Increased G/F



Availa Zn60 Economics

Item	Availa Zn Advantage
HCW, kg	4.50
Carcass value, \$/hd	18.75
Availa Zn, \$/hd	-3.52
Net Value, \$/hd	15.23
ROI	4:1

Genther-Schroeder, O. N., M. E. Branine, and S. L. Hansen. 2016. The effects of increasing supplementation of zinc amino acid complex on growth performance, carcass characteristics, and inflammatory response of beef cattle fed ractopamine hydrochloride. J. Anim. Sci. 94:3389-3398.

