

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



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 animal intake measured

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

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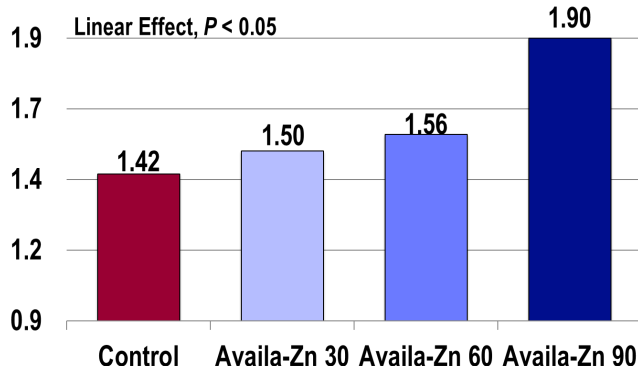
Results Summary

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

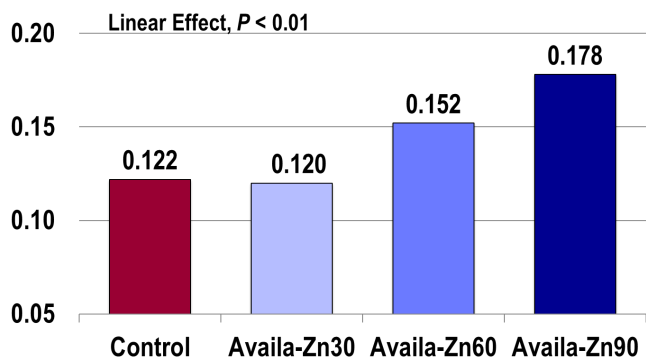
- ✓ Greater final body weight
- ✓ Decreased % KPH fat, lowest values among steers fed 60 ppm Zn from Availa-Zn
- ✓ Lower plasma haptoglobin concentration
- ✓ Decreased serum interleukin-8, lowest concentration among steers fed 60 ppm Zn from Availa-Zn

Feeding Availa®Zn enhances 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, kg



Availa-Zn with RAC Increased Gain/Feed



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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.