INSIGHTS - A LOOK INSIDE PEER-REVIEW

Feeding Zinpro® Availa® Plus to Feedlot Cattle Mitigates Digital Dermatitis Prevalence and Severity

Study Objective

Evaluate efficacy of feeding Zinpro Availa Plus to feedlot cattle on digital dermatitis (DD) control and prevention. Determine the impact of DD on feedlot cattle performance, carcass yield and quality, and economics.

Study Duration

Phase 1: All cattle fed Control diet and evaluated to establish DD prevalence; 60 d

Phase 2: Cattle fed assigned treatment diets and DD prevalence measured through harvest

Animals

1077 mix breed steers (501 kg); 57and 95 d (635 to 658 kg) on feed at enrollment; housed in covered barns.

Treatments

Control: Inorganic sources of Zn, Mn, Cu, Co, and I

Zinpro Availa Plus: Zn, Mn,and Cu from amino acid complexes, Co from cobalt glucoheptonate, and potassium iodide

Location

Commercial feedlot, North-Central, USA

Results Summary

Feeding Zinpro Availa Plus to feedlot cattle:

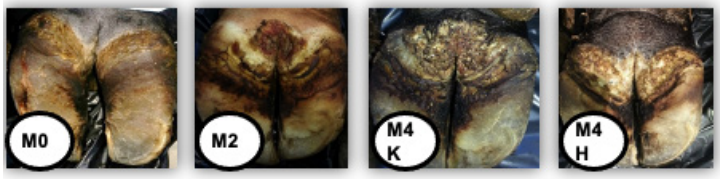
✓ Decreased prevalence, risk, severity, and chronicity of digital dermatitis lesions

Active DD lesions negatively impacted steer:

✓ Growth performance, final live weight, and hot carcass weigh

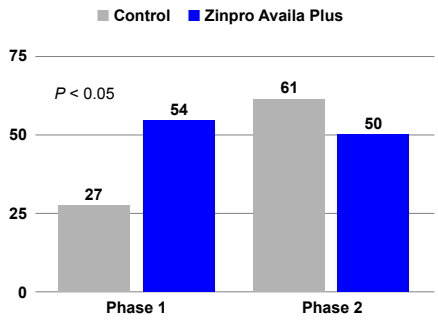
Feeding Zinpro Availa Plus is an effective digital dermatitis intervention and control tool for feedlot cattle.

Digital Dermatitis Classifications:

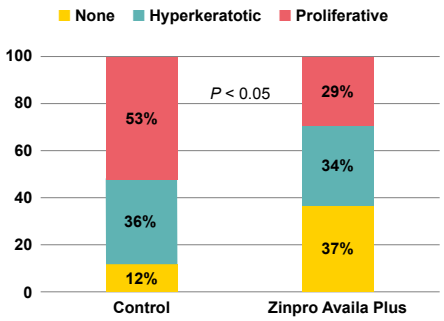


M0 = No lesion
M2 = Active lesion > 20 mm
M4 = Chronic non-active lesion
M4K = Proliferative
M4H = Hyperkeratotic

Zinpro Availa Plus Lowered DD Lesion Prevalence



Zinpro Availa Plus Decreased DD Chronicity



Digital Dermatitis Economics

✓ Feeding Zinpro Availa Plus reduced DD lesions by 11.5%

✓ Steers with DD lesions had a 10 kg average decrease in live weight and 5.5 kg average decrease in HCW

✓ Average economic loss from DD is $40.00 per affected animal

Kulow, M., P. Merkatoris, K. S. Anklam, J. Rieman, C. Larson, M. Branine, and D. Dopfer. 2017. Evaluation of the prevalence of digital dermatitis and the effects on performance in beef feedlot cattle under organic trace mineral supplementation. J. Anim. Sci. 95:3435–3444.

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