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

Study Objectives
Evaluate efficacy of feeding 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.

Animals
1077 mix breed steers (501 kg); 57 and 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
Availa-Plus: Zn, Mn, and Cu from amino acid complexes, Co from cobalt glucoheptonate, and potassium iodide

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

Location
Commercial feedlot, North-Central, USA

Results Summary
Feeding 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 weight

Availa-Plus Lowered DD Lesion Prevalence

<table>
<thead>
<tr>
<th></th>
<th>Control</th>
<th>Availa-Plus</th>
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</thead>
<tbody>
<tr>
<td>Phase 1</td>
<td>26.7%</td>
<td>54.0%</td>
</tr>
<tr>
<td>Phase 2</td>
<td>61.1%</td>
<td>49.7%</td>
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</tbody>
</table>

Availa-Plus Decreased DD Chronicity

<table>
<thead>
<tr>
<th></th>
<th>None</th>
<th>Hyperkeratotic</th>
<th>Proliferative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>52.5%</td>
<td>33.7%</td>
<td>11.5%</td>
</tr>
<tr>
<td>Availa-Plus</td>
<td>28.9%</td>
<td>37.4%</td>
<td>31.7%</td>
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Digital Dermatitis Classifications:
M0 = No lesion
M2 = Active lesion > 20 mm
M4 = Chronic non-active lesion
M4K = Proliferative
M4H = Hyperkeratotic

Digital Dermatitis Economics
✓ Feeding 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

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