

## Bovamine® References (BEEF) Published Studies



- Cull AC, Renter DG, Dewsbury DM, Noll LW, Shridhar PB, Ives SE, Nagaraja TG and Cernicchiaro N. Feedlot- and Pen-Level Prevalence of Enterohemorrhagic *Escherichia coli* in Feces of Commercial Feedlot Cattle in Two Major US Cattle Feeding Areas. *Foodborne Pathog Dis.* 2017;14(6):306-317.
- Cull AC, Renter DG, Bello NM, Ives SE and Babcock AH. Performance and carcass characteristics of commercial feedlot cattle from a study of vaccine and direct-fed microbial effects on *Escherichia coli* O157:H7 fecal shedding. *J. Anim. Sci.* 2015;93(6):3144-3151.
- Vipham JL, Loneragan GH, Guilen LM, Brooks JC, Johnson BJ, Pond A, Pond N and Brashears MM. Reduced Burden of *Salmonella enterica* in Bovine Subiliac Lymph Nodes Associated with Administration of a Direct-fed Microbial. *J. Zoonotic Dis Public Health.* 2015;62(8):599-608.
- Dick, K, Duff G, Limesand S, Cuneo S, Knudson D, McMurphy C and Marchello J. Effects of a direct-fed microbial on digestive-tract morphology of Holstein bull calves and performance and carcass characteristics of Holsteins. *Prof. Ani. Sci.* 2013;29(2):107-115.
- Ison, JA. *Meta-analysis of the association of Lactobacillus acidophilus NP51 administration with Escherichia coli O157 in feces and on hides of feedlot cattle [master's thesis]*. Lubbock: Texas Tech University; 2013.
- Luebke MK, Jenkins KH, Furman SA, Kreikemeier KK. Effects of Feeding Microbial Feed Additives on Growth Performance and Carcass Traits of Steers Fed Steam-Flaked Corn-Based Diets with Wet Distillers Grains Plus Solubles. *Nebraska Beef Cattle Reports.* 2013:730.
- Cull, CA, Paddock ZD, Nagaraja T, Bello NM, Babcock AH and Renter DG. Efficacy of a vaccine and a direct-fed microbial against fecal shedding of *Escherichia coli* O157:H7 in a randomized pen-level field trial of commercial feedlot cattle. *Vaccine.* 2012;30(43):6210-6215.
- Hanford, KJ, Kreikemeier WM and Ware DR. The effect of Bovamine on feedlot performance of finishing cattle: A meta-analysis. *J. Anim. Sci.* 2011;89(suppl 1):258-261.
- Osman M, Stabel J, Hostetter JM, Nettleton DS, Beitz DC. Probiotic *Lactobacillus acidophilus* strain NP51® Curtails the Progression of *Mycobacterium avium* Subspecies *paratuberculosis* (MAP) Infection in Balb/c mice. *Animal Industry Report* 2011;AS 657, ASLR2597.
- Vasconcelos, JT, Elam NA, Brashears MM and Galyean ML. Effects of increasing dose of live cultures of *Lactobacillus acidophilus* (Strain NP 51) combined with a single dose of *Propionibacterium freudenreichii* (Strain NP 24) on performance and carcass characteristics of finishing beef steers. *J. Anim. Sci.* 2008;86:756-762.
- Peterson, RE, Klopfenstein TJ, Erickson GE, Folmer J, Hinkley S, Moxley RA and Smith DR. Effect of *Lactobacillus acidophilus* Strain NP51 on *Escherichia coli* O157:H7 Fecal Shedding and Finishing Performance in Beef Feedlot Cattle. *J. Food. Prot.* 2007;70(2):287-291.
- Stephens, TP, Loneragan GH, Chichester, LM and Brashears, MM. Prevalence and Enumeration of *Escherichia coli* O157 in Steers Receiving Various Strains of *Lactobacillus*-Based Direct-Fed Microbials. *J. Food. Prot.* 2007;70(5):1252-1255.
- Stephens, TP, Loneragan GH, Karunasena E and Brashears MM. Reduction of *Escherichia coli* O157 and *Salmonella* in Feces and on Hides of Feedlot Cattle Using Various Doses of a Direct-Fed Microbial. *J. Food. Prot.* 2007;70(10): 2386-2391.

- Woerner, DR, Ransom JR, Sofos JN, Scanga JA, Smith GC and Belk KE. Preharvest processes for Microbial Control in Cattle. *Food Prot. Trends*. 2006;26(6):393-400.
- Younts-Dahl SM, Osborn GD, Galyean ML, Rivera JD, Loneragan GH and Brashears MM. Reduction of *Escherichia coli* O157 in Finishing Beef Cattle by Various Doses of *Lactobacillus acidophilus* in Direct-Fed Microbials. *J. Food. Prot.* 2005;68(1):6-10.
- Folmer JD, Macken CN, Erickson GE, Klopfenstein TJ, Moxley RA, Smith DR, Hinkley S, Potter AA and Finley BB. Vaccination and Direct Fed Microbials as Intervention Strategies for Reduction of *E. coli* O157:H7 in Feedlot Steers. *Nebraska Beef Report*. 2004;190.
- Greenquist MA, Drouillard JS, Dicke B, Erickson GE and Klopfenstein TJ. Effects of *Lactobacillus acidophilus* and *Propionibacterium freudenreichii* on growth performance and carcass characteristics of finishing beef cattle; vol. 0, iss 1. *Kansas Agricultural Experiment Station Research Reports*. <https://doi.org/10.4148/2378-5977.1621>. Published 2004. Accessed June 27, 2019.
- Younts-Dahl SM, Galyean ML, Loneragan GH, Elam NA and Brashears MM. Dietary Supplementation with *Lactobacillus* and *Propionibacterium* Based Direct-Fed Microbials and Prevalence of *Escherichia coli* O157 in Beef Feedlot Cattle and on Hides at Harvest. *J. Food. Prot.* 2004;67(5): 889-893.
- Brashears MM, Galyean ML, Loneragan GH, Mann JE and Killinger-Mann K. Prevalence of *Escherichia coli* O157:H7 and Performance by Beef Feedlot Cattle Given *Lactobacillus* Direct-Fed Microbials. *J. Food. Prot.* 2003;66(5):748-754.
- Brashears MM, Jaroni D and Trimble J. Isolation, Selection, and Characterization of Lactic Acid Bacteria for a Competitive Exclusion Product to Reduce Shedding of *Escherichia coli* O157:H7 in Cattle. *J. Food Prot.* 2003;66(3):355-363.
- Elam, NA, Gleghorn JF, Rivera JD, Galyean ML, Defoor PJ, Brashears MM and Younts-Dahl SM. Effects of live cultures of *Lactobacillus acidophilus* (strains NP45 and NP51) and *Propionibacterium freudenreichii* on performance, carcass, and intestinal characteristics, and *Escherichia coli* strain O157 shedding of finishing beef steers. *J. Anim. Sci.* 2003;81(11):2686.
- Krehbiel CR, Rust SR, Zhang G and Gilliland SE. Bacterial direct-fed microbials in ruminant diets: Performance response and mode of action. *J. Anim. Sci.* 2003;81(E suppl 2):E120-E132.
- Trenkle A. The Effects of Feeding a Live Microbial Product on Feedlot Performance and Carcass Value of Finishing steers Fed Wet Corn Gluten Feed. *Iowa State University Beef Research Report*. 2001;ASL R1742: 22-24.
- Galyean, ML, Nunnery GA, Defoor PJ, Salyer GB and Parsons CH. Effects of live cultures of *Lactobacillus acidophilus* (Strains 45 and 51) and *Propionibacterium freudenreichii* PF-24 on performance and carcass characteristics of finishing beef steers. Burnett Center Internet progress report no. 8. [https://www.depts.ttu.edu/afs/burnett\\_center/progress\\_reports/bc8.pdf](https://www.depts.ttu.edu/afs/burnett_center/progress_reports/bc8.pdf). Published 2000. Accessed June 27, 2019.
- Rust SR, Metz K and Ware DR. Effects of BOVAMINE rumen culture on the performance and carcass characteristics of feedlot steers. Michigan Agric. Exp. Stn. Beef Cattle. Sheep and Forage Sys. Res. Dem. Rep. no. 569. 2000;22-26.