



TRIAL DETAILS

- Objective: To determine the effect of a novel strain of LAB on performance, animal health and pathogen reduction when compared to an industry leading DFM.
- Study Location: Pacific Northwest
- Trial Date: September 2021- December 2021
- Cattle: Yearlings, 8 pens/treatment; 1854 HD/ Treatment
- Fecal samples were collected every 21 days from each pen (6 samples/pen)
- Sample collection: Pen floor fecal samples every 21 days from 6 fresh fecal pats/pen
- Sample Handling and Analysis: Samples were chilled and overnighted to a third-party lab for analysis.
- Health data was collected from the feedlot animal health management system.

FEEDLOT CATTLE BENEFITS

Reduction of Pathogens:

Probicon decreased fecal shedding of *E. coli* O157:H7, *C. perfringens*, and *Enterobacteriaceae* versus the competitor.

Animal Health and Performance:

Probicon decreased the risk of respiratory disease when compared to the competitor.

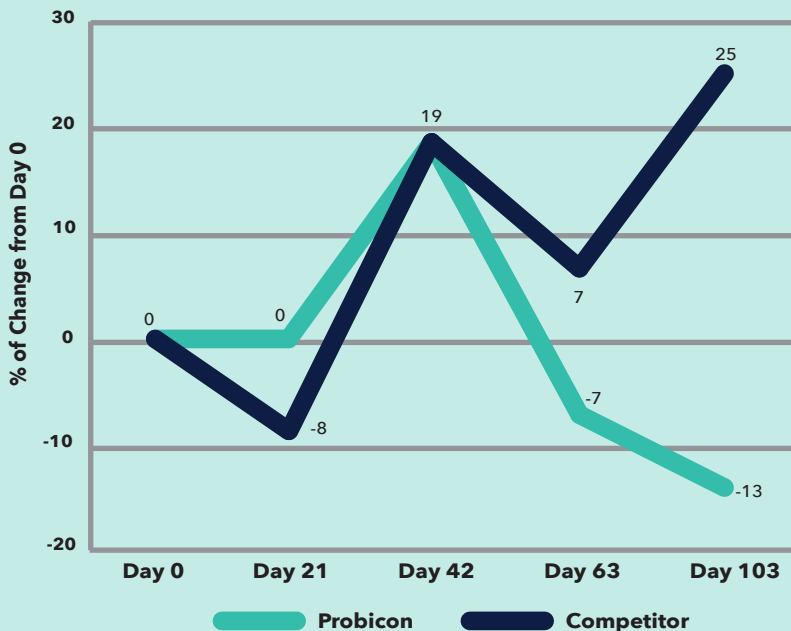
PARAMETER	COMPETITOR	PROBICON
Initial Weight, lbs.	856	857
Final Weight, lbs.	1,442	1,449
Dry Matter Intake, lbs.	25.86	25.76
Average Daily Gain, lbs.	3.63	3.69
Dry Matter Conversion	7.15	7.02
Hot Carcass Weight, lbs.	913	917
Days on Feed	162	161
Mortality	13	13
Respiratory Diseases	145	101
Medicine cost, \$/head	\$103.51	\$78.23

CATTLE PERFORMANCE AND ANIMAL HEALTH

Feeding cattle Probicon decreased the risk of respiratory disease when compared to the competitor (risk ratio 0.70, P < 0.05).



ECOLI 0157



ECOLI RESULTS

Probicon yielded a lower prevalence of *E. coli* 0157:H7 at day 103.

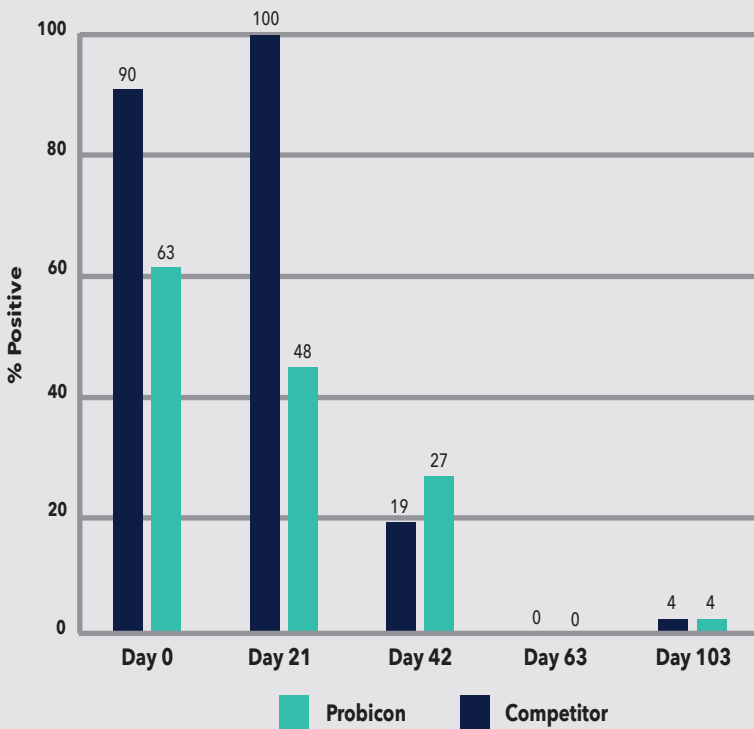
- Probicon - 19/48 pens contained *E. coli*
- Competitor - 31/48 pens contained *E. coli*

CLOSTRIDIA RESULTS

The Probicon treatment on *C. perfringens* prevalence was statistically significant.

- The concentration of *C. perfringens* was 0.19 log₁₀ CFU lower for Probicon (p>0.05) treated cattle.
- Throughout the study average loads were 7.16 log₁₀ CFU/g for Probicon and 8 log₁₀ CFU/g for the competitor.

CLOSTRIDIA - % POSITIVE



CLOSTRIDIA - RISK LEVELS

