



# Effects of fermentation aids on rumen bacteria in Utah State University study

Fistulated rumen studies were used at Utah State University to evaluate the effect of fungal enzymes, yeast, and **Rumen-bac®** on fermentation and microbial parameters in the rumen of dairy cows.

In these studies, each of the products was evaluated based on the manufacturers' recommended feeding directions.

The effects of yeast, fungal enzymes, and **Rumen-bac®** on total rumen bacteria numbers are shown in the table at right.

Treatments	Total Rumen Bacteria — X 10 <sup>10</sup> /ml —
Control	1.96
Yeast (90 grams)	2.55
Vita Ferm (90 grams)	2.57
AmaFerm (2.63 grams)	3.34

Rumen-bac® Trial	
Control	2.09
10 grams Rumen-bac®/cow/day	6.31
15 grams Rumen-bac®/cow/day	16.22



The results of these studies show that all fermentation aids evaluated (yeast, fungal enzymes and Rumen-bac®) increased the total bacteria numbers in the rumen.

The largest increases in total bacteria numbers were observed in the two levels of **Rumen-bac®**.