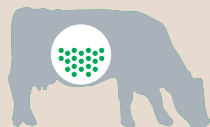


# F.A.R.M.E. Institute Homer, NY 2003



**Levucell<sup>®</sup> SC**  
*Rumen Specific Yeast*

A 300 cow trial at F.A.R.M.E. Institute, NY, (2003) compared milk production and milk composition of high producing cows fed a Control diet; Levucell SC ( $1 \times 10^{10}$  CFU/d); and a non-strain-specific live yeast - High CFU ( $6 \times 10^{10}$  CFU/d).

The milk cow ration consisted of corn silage, alfalfa and grass haylage, dry hay, cornmeal, soybean meal and a concentrate blend. Ration composition was approximately 18.2% CP, 37% UIP, 40% NFC, 5% fat, and 0.80Mcal/lb NEI.

All cows received the same base ration; the test probiotics were mixed into individual loads daily. Daily milk production of individual cows was recorded during the 56-day trial period.



Milk from individual cows was sampled and analyzed for milk components by Dairy One Laboratory, NY, on weeks 0, 4, and 8 (trial end).

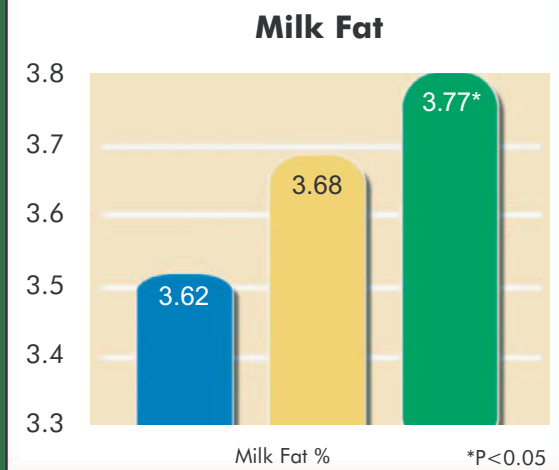
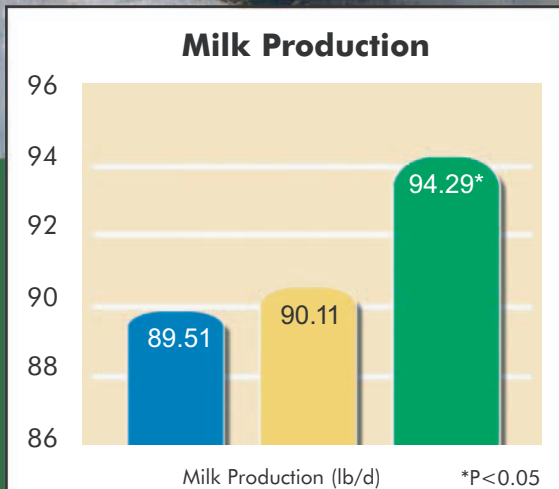
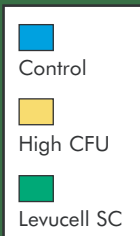
The trial results indicated that **the cows fed Levucell SC produced 4.5 pounds more milk and also increased milk fat by 15 points** ( $P < .05$ ).

*Ration containing*

***Levucell SC*** *rumen specific yeast significantly improved milk production and milk fat.*



*...those fed Levucell SC diet outperformed....*



**Summary:**

Cows fed Levucell SC produced 4 pounds more milk than the Control and the other probiotic treatment. Milk fat for Levucell SC was 3.77% versus 3.68% (High CFU) and 3.62% (Control). Overall, the cows fed the yeast diets produced more milk with better components than the Control cows, and those fed Levucell SC diet outperformed the cows fed the High CFU Yeast in milk and milk fat percent.

The improved performance with Levucell SC equates to an economic response of more than \$.60/hd/day\*. This represents approximately a 12:1 return on investment.

Treatment	DMI lbs/day	Milk Protein %
Control	62.05	2.91
High CFU	59.97	3.07
Levucell SC	60.64	3.01

\* Based on a \$13/cwt milk price