



# Dairy Tech-Line



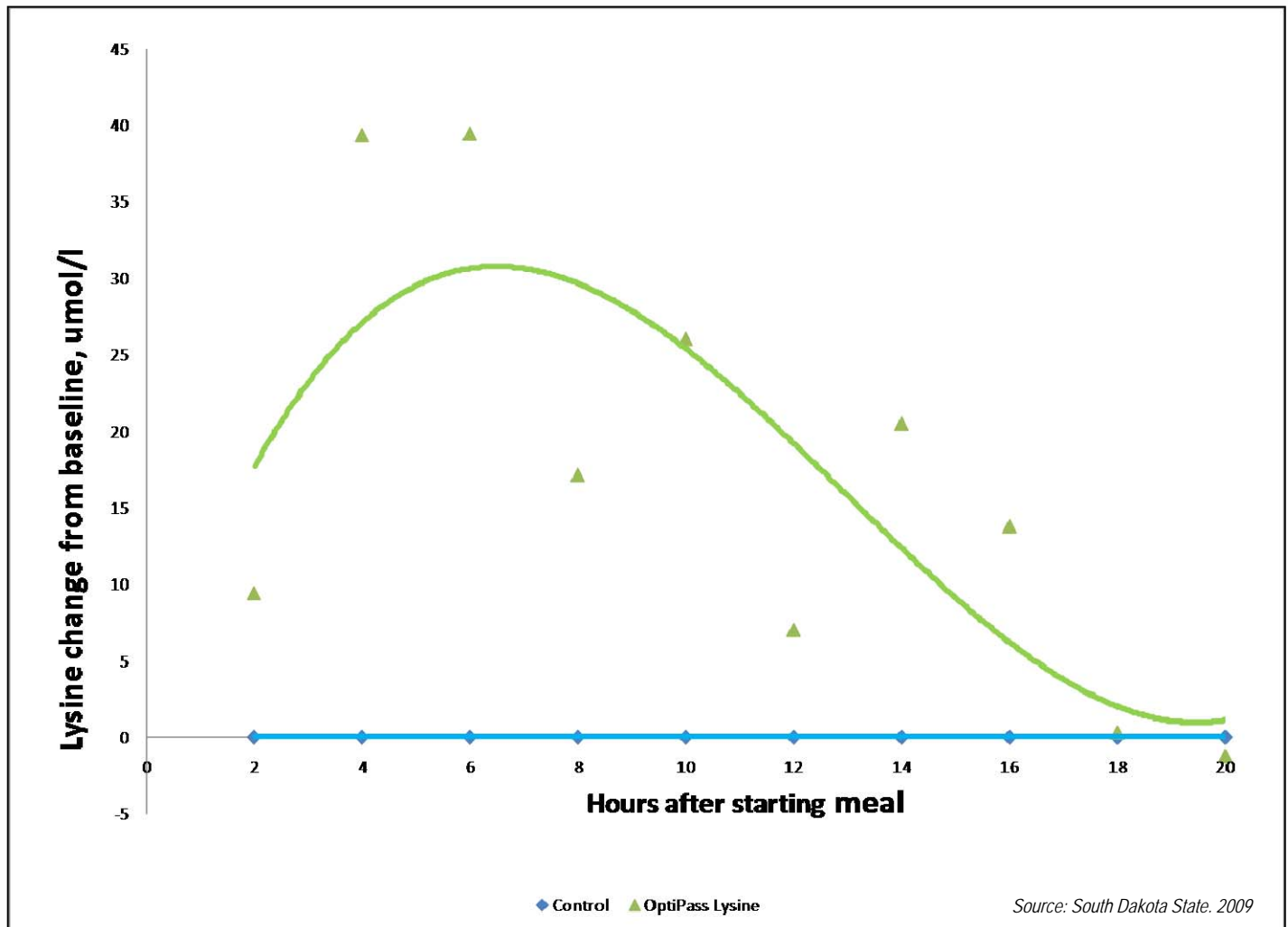
October 2009

## OptiPass<sup>TM</sup> Lysine

OptiPass Lysine is a source of rumen bypass and intestinally available lysine for dairy cattle. OptiPass Lysine increases the bypass lysine levels in rations which can improve production, reduce feed costs and increase overall profitability.

### *Measuring Availability*

A key to the effectiveness of OptiPass Lysine is to bypass the rumen and then be broken down sufficiently to be available for absorption in the small intestine. One way to measure availability and absorption is to determine blood levels of lysine after feeding a dose of OptiPass Lysine to dairy cows. Research at South Dakota State involved feeding a dose of OptiPass Lysine to lactating dairy cows and taking blood samples every two hours for measurement of blood lysine. The graph below shows increased blood lysine levels as a result of feeding OptiPass Lysine when compared to control levels. Overall a high rate of lysine is available in the 2 to 10 hour timeframe.



(over)

*Products and Answers that WORK<sup>®</sup>*



## Production Improvements

OptiPass Lysine Field Evaluation			
	Herd 1	Herd 2	Weighted Average
No. Lactating Cows	500	980	
Milk Production, lb/hd/d			
Before	79.0	75.5	76.7
During	87.0	78.5	81.4
After	82.0	75.5	77.7
Additional Milk, lb/hd/d	6.5	3.0	4.2
Milk Protein	lbs	lbs	
Before	2.48	2.43	2.45
During	2.73	2.48	2.57
After	2.57	2.43	2.48
Additional Milk Protein, lb/hd/d	0.20	0.05	0.10
Grams of OptiPass Lysine Added	36.00	32.00	34.1

Field trial results with OptiPass Lysine supplementation showed increased milk production and milk protein yield.

The evaluations at left show typical responses when balancing diets to more optimal lysine levels.

At \$12/cwt milk price, these evaluations average a 2 to 1 return on investment.

Many rations fed to dairy cows may not contain sufficient amounts of metabolizable lysine, resulting in lost potential for milk production and components. OptiPass Lysine is an economical product that can be part of an overall targeted approach to meeting the needs of today's high producing dairy cow.

Hubbard Feeds Inc.  
 PO Box 8500  
 Mankato, MN 56002-8500  
 1-800-869-7219  
[www.hubbardfeeds.com](http://www.hubbardfeeds.com)

