

VERSAZYME™

A NATURAL ENZYME THAT GROWS BIGGER BIRDS AND FATTER WALLETS



Save on feed costs, produce more meat or produce the same amount faster — the choice is yours with this heat-stable enzyme. Regardless of which option you choose, **Versazyme is a new tool for increasing profitability.** Plus, it's a socially responsible choice—it can lower nitrogen and ammonia while offering a natural alternative to antibiotics.

**INCREASE
YOUR
PROFITABILITY
WITH
VERSAZYME.**

IN COMMERCIAL STUDIES VERSAZYME HAS:

- > Boosted body weight gain
- > Improved feed conversion up to 10 points
- > Increased breast meat yield
- > Increased total meat yield more than 18 pounds per ton of feed
- > Cut crude protein needs by 10% while delivering the same results as a higher protein diet
- > Helped harvest more live birds
- > Increased uniformity

SLASH EXPENSIVE FEED COSTS WITH VERSAZYME: Goldman Sachs raised its 12-month soybean price projection to \$14.50/bushel while other commodities went significantly higher too in December 2007. Even at much lower prices, Versazyme offers significant savings by lowering crude protein in the diet.

Soybean Meal Replacement Value

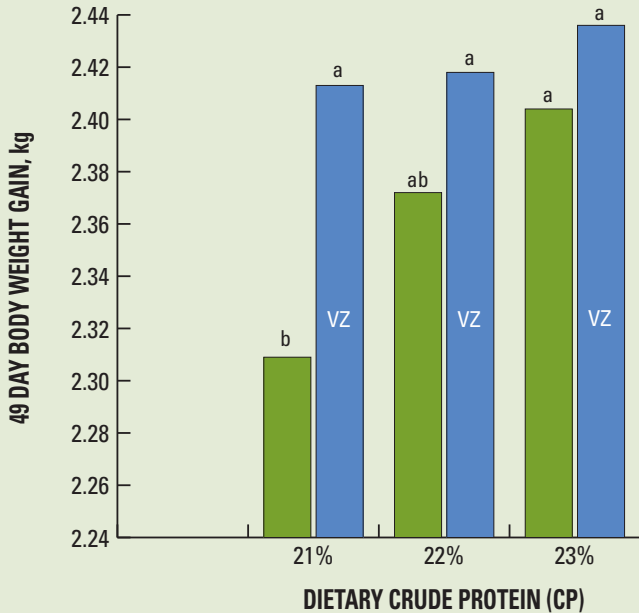
CP Replacement	UNITED STATES		INTERNATIONAL	
	SM (\$/T)	Cost Savings, \$/T feed	SM (\$/MT)	Cost Savings, \$/MT feed
1%	\$200	\$4.17	\$400	\$8.33
	\$250	\$5.21	\$450	\$9.38
	\$300	\$6.25	\$500	\$10.42
	\$350	\$7.29	\$550	\$11.46
	\$400	\$8.34	\$600	\$12.50
2%	\$200	\$8.33	\$400	\$16.67
	\$250	\$10.42	\$450	\$18.75
	\$300	\$12.50	\$500	\$20.83
	\$350	\$14.58	\$550	\$22.92
	\$400	\$16.66	\$600	\$25.01

VERSAZYME™

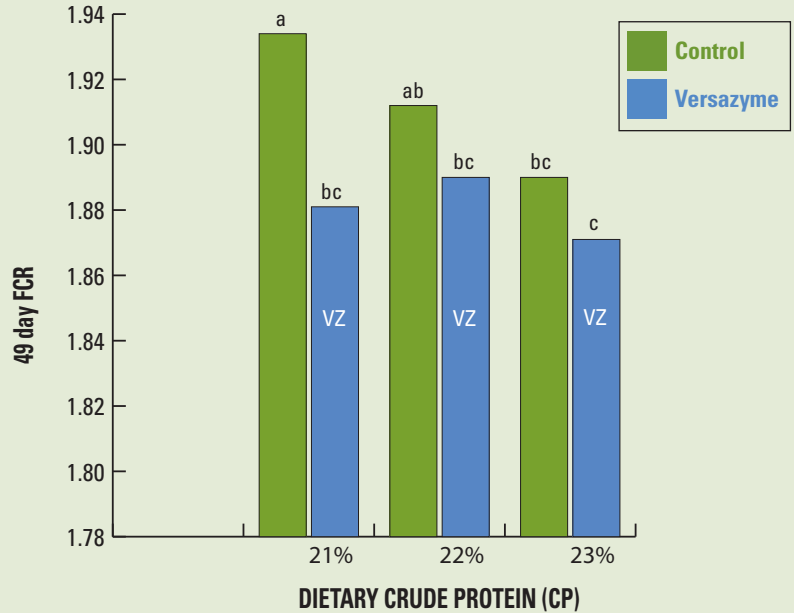
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IN TRIALS, adding Versazyme to lower protein diets (21%)* increased broiler body weight and improved feed efficiency (gain per kg feed) to levels similar to feeding higher protein diets (23%). Similar results were seen with egg production when laying hens were fed a diet containing Versazyme.

VERSAZYME™ Can Replace 10% of Dietary Protein



VERSAZYME™ Saves Feed Cost by Improving Feed Efficiency



Source: JAPR 2006. (Bars with different subscripts are significantly different at P < 0.05)

In addition, with FCR improvements of up to 10 points in commercial trials like the one shown below, birds will use less feed even when Versazyme is fed on top of a standard diet instead of being used as a protein replacement.

61-day	BW (lb)	FCR	Adjusted FCR	Livability, %	Breast Meat Yield, %
Versazyme™	8.12	2.07 ^a	1.96 ^a	96.16	25.26
Control	7.94	2.14 ^b	2.06 ^b	95.3	24.86

MORE MEAT, MORE PROFIT: Supplementing traditional corn-soybean diets with Versazyme increases body weight gain and improves meat yield as shown in the trial below. This boosts revenue whether you choose to market bigger birds or shorten days on feed to keep bird size smaller while increasing return on assets and birds marketed per year.

54-day	BW (lb)	FCR	Adjusted FCR	Mortality, %	WOG, %	Total Boneless, %
Versazyme™	6.73	1.767 ^a	1.760 ^a	2.80	73.37	23.00
Control	6.60	1.787 ^{ab}	1.792 ^b	3.05	73.18	22.67

Means in the same column with different subscripts are significantly different at P < 0.10

HOW DOES IT WORK?

Versazyme is a keratinase-based natural enzyme feed additive that increases protein digestibility. Unlike traditional enzymes, it offers a new level of performance, especially in traditional corn-soy diets. Developed by Dr. Jason Shih at North Carolina State University and commercialized by BRI, it is the product of years of research and seven patents.

VERSAZYME SPECIFICATIONS

APPLICATION: A dry powder that can be added pre- or post-pelleting

INCLUSION RATE: 0.5 kg/metric ton of feed; 1 lb/US ton of feed

STABILITY: Stable at room temperature. Resists pelleting conditions; heat-stable even at high temperatures.



HARNESSING THE NATURAL POWER OF ENZYMES

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*Median CP for broilers weighing 2.27-2.50 Kg is 22% CP, based on AgriStats All Company Averages (2003) for Southeastern USA.