

## Effect of BIOFENZYME on Silky Fowl Performance

### 1 Material and method

#### 1.1 Material

Test BIOFENZYME was provided by JINAN BESTZYME BIO-ENGINEERING CO., LTD.

#### 1.2 Animals

The experiment was conducted at a silky fowl farm of Liaocheng, Shandong. A total of 20000 healthy 1d old silky fowls were randomly divided into 2 treatment groups, control group and treatment group. The experiment lasted for 65 days. Control group was fed with corn-soy meal diet +200g/t regular complex enzyme; treatment group was fed with basal diet +200g/t BIOFENZYME.

#### 1.3 Management and diets

All silky fowls had free access to feed and water in this experiment. See table 1 for formula and nutrition facts.

Table 1 Formula and Nutrition Facts of Basal Diet

Diet composition	Day1-Day21	Day22-final
Corn	60%	62%
Soy meal	18%	12%
Middling	6.98%	7.98%
Cottonseed protein	3%	5%
Corn gluten meal	6%	5%
Oil	0.5%	3%
Premix	5%	5%
Enzyme	0.02%	0.02%
Nutritive Index		
Metabolic energy (kcal/kg)	2890	3050
Crude protein %	21.4	18.7
Methionine %	0.5	0.44

Lysine %	1.25	1.05
Calcium %	1.0	0.85
Total phosphate	0.64	0.54
Available phosphate	0.37	0.33

#### 1.4 Determination of index

Feed regularly; record the amount of feed and the consumption of feed; calculate average daily feed intake (ADF) and weigh with empty stomach at day 21 and the last day, calculate average daily gain (ADG). Use ADF and ADG to calculate feed conversion ratio.

## 2 Result and analysis

Table 2 Effect of BIOFENZYME on Production Performance of Silky Fowl

Age	Index	Control group	treatment group I
1-21	ADG, g/day	11.58	11.63
	ADF, g/day	19.04	19.04
	feed conversion ratio	1.64	1.64
22-final	ADG, g/day	18.57	19.85
	ADF, g/day	47.37	47.37
	feed conversion ratio	2.55	2.39
1-final	ADG, g/day	16.10	17.00
	ADF, g/day	36.20	37.29
	feed conversion ratio	2.25	2.19

The result shows that the early stage of the test is 1 to 21 days of age, the experimental group compared with control group, the feed intake, daily gain; feed conversion ratio has no significant improvement. Test in the late age of 22 - market, a 6.89% increase in weight of experimental group than the control group, feed intake no improvement, feed conversion rate by 6.27%。 Under the condition of same intake, BIOFENZYME are added to improve the utilization rate of feed, show the weight increase. From the point of the test process, test group than the control group on average daily gain increased by 5.59%, 3.01% higher than that of average daily feed intake, and feed conversion rate by 2.67%.

The test results shows that the BIOFENZYME added to improve the production performance of the silky fowl. BIOFENZYME as single bacteria enzyme products of the same strains fermentation with enzyme spectrum is extensive, good synergy and other advantages. It contains rich acid protease, improve protein digestibility, and decrease protein digestibility of the differences between the individual and feed. Xylanase and cellulase destroyed the plant cell wall,

the release of nutrients, reduce the viscosity of chyme, improve nutrient consumption rate. Mannase and Galactosidase adjustable intestinal health, improve the body's immune function; Alleviate stress, improve the growth, improve the overall health status, so as to improve the overall production performance.