

TECHNICAL SERVICE



BULLETIN



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NO 281-E

BIOGRO SUPER® ADDS PROFITS TO BROILER PRODUCTION

BIOGRO SUPER® is a high-protein feed supplement with a nutrient profile similar to good quality fishmeal. Previous feeding trials have shown that **BIOGRO SUPER**, added at 2 percent to broiler starter feeds, performs as well as feeds containing 4 percent Asian fishmeal (Technical Service bulletin #265E).

In a more recent feeding trial, **BIOGRO SUPER** again improved broiler performance, with broilers gaining more liveweight and consuming less feed. The increased value of birds fed **BIOGRO SUPER** at 2 percent of the ration was US \$168.40 per 10,000 broilers. At 4 percent of the ration, birds fed **BIOGRO SUPER** were worth US \$202.39 more.

MATERIALS AND METHODS

One-day old Ross x Ross male broiler chicks were received from a commercial hatchery where they had been Mareks-vaccinated. The chicks were weighed individually and allotted so that replicate groups weighed approximately the same. There were 16 replicates per treatment, with 10 chicks per replicate.

The day-old chicks were placed in Petersime brooding batteries and offered isonitrogenous, isolysinic and isocaloric diets ad libitum, with the following calculated analysis:

PROTEIN	22.50%
Lysine	1.30%
Methionine and Cystine	0.90%
Calcium	0.95%
Available Phosphorus	0.45%
Metabolizable Energy	3130 kcal/kg

The control group received a corn-soybean meal ration. The experimental groups received two percent and four percent **BIOGRO SUPER**, respectively, in their rations. The test ended at 17 days of age.

RESULTS

Both **BIOGRO SUPER** groups outperformed the control group. At 2 percent of the ration, birds fed **BIOGRO SUPER** gained 9.05 percent more weight.

At 4 percent of the ration, birds fed **BIOGRO SUPER** gained 12.51 percent more weight. These results were strongly significant, with $P < .01$.

The following table summarizes the economic benefits of this feeding trial:

ECONOMIC BENEFITS OF BIOGRO SUPER

	CONTROL	2% BIOGRO SUPER	4% BIOGRO SUPER
BIRDS STARTED	160	160	160
% MORTALITY	1.25	1.88	0
WEIGHT GAIN (KG)	51.044	55.666	57.430
MEAT VALUE(\$/KG)	0.882	0.882	0.882
\$ MEAT VALUE	45.02	49.10	50.65
FEED CONSUMED(KG)	91.746	93.775	93.769
FEED COST (\$/KG)	0.1793	0.1902	0.2010
\$ FEED COST	16.45	17.83	18.85
\$ NET VALUE	28.57	31.26	31.81
\$ IMPROVEMENT		2.69	3.24
\$ IMPROVEMENT (10,000 BIRDS)		168.40	202.39

As the table demonstrates, 160 broilers fed 2% **BIOGRO SUPER** gained a total of 55.666 kg, versus the control at 51.044 kg. At 4% **BIOGRO SUPER**, birds gained a total of 57.430 kg. This additional weight, valued at US \$0.882/kg, resulted in US \$49.10 of **MEAT VALUE** for the 2% treatment, and US \$50.65 for the 4% treatment.

The control diet **FEED COST** was US \$0.1793/kg. The **FEED COST** of the 2% **BIOGRO SUPER** ration was US \$0.1902/kg. The 4% **BIOGRO SUPER** ration cost US \$0.2010/kg.

After deducting the total **FEED COST** from the total **MEAT VALUE**, the **NET VALUE** for the control, 2% **BIOGRO SUPER**, and 4% **BIOGRO SUPER** groups were US \$28.57, \$31.26, and \$31.81, respectively.

In other words, the 2% treatment was worth US \$2.69 more than the control group, and the 4% treatment was worth \$3.24 more. On the basis of 10,000 broiler chicks, the **IMPROVEMENT** was US \$168.40 and \$202.39 respectively.

Once again, **BIOGRO SUPER** has improved animal performance. The product's financial benefits far exceed its cost. Poultry and livestock producers are encouraged to try **BIOGRO SUPER** now!

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