

## BiOWiSH™ MultiBio 3P

Broiler chicks gained significantly more body weight and improved feed conversion with BiOWiSH™ MultiBio 3P added to the diet.

Virginia Diversified Research Corp. conducted a study to determine the benefits of BiOWiSH™ MultiBio 3P on broiler growth performance and to confirm the effects of the animal in-feed additive in a commercial setting.

BiOWiSH™ MultiBio 3P treatment had a significant improvement in body weight gain and feed conversion ratio (FCR) over the control diet. BiOWiSH™ MultiBio 3P showed a 5.44% improvement in weight gain and a 3.2% improvement in FCR at 42 days vs. that of the control pellet diet.

Treatment Group	D42 Body Wt (lb)	D42 FCR (lb/lb)
Control Pellet Diet	4.408	1.866
BiOWiSH™ MultiBio 3P	4.648	1.807

Feed Conversion Ratio (FCR) is weight adjusted.

The 3.2% improvement in FCR for BiOWiSH™ MultiBio 3P, as fed through the pelleted feed and in addition to the control diet, is consistent with the results obtained from a previous study conducted at Texas A&M University.

Day 42 mortality-adjusted feed efficiency values were not significantly different among treatments. Total mortality from all causes was 9.8% (53 out of 540 placed). The deaths were from air sac, cardiac disorder, omphalitis, peritonitis, enteritis, stunted growth culls, and culls for lameness. The air sac, peritonitis, enteritis, and bad legs and stunted culls most likely resulted from exposure to old litter on Day 4, based on previous projects.

BiOWiSH™ MultiBio 3P dosage rates for this study were 500 grams per metric tonne of feed and were in addition to the control diet. Dosage rates may vary by species and management practices. The best management practice general recommendation for BiOWiSH™ MultiBio 3P is 500 to 1000 grams per metric ton of feed.

### What is BiOWiSH™ MultiBio 3P?

BiOWiSH™ MultiBio 3P is a direct fed microbial (DFM) for poultry operations.

BiOWiSH™ MultiBio 3P can be added to animal pellet or compound feeds.

BiOWiSH™ MultiBio 3P feed additive is recommended for all growth stages. For optimum results in broiler, layer, and breeder birds, commence feeding at day of hatch. Maintain recommended concentration by adding more BiOWiSH™ MultiBio 3P with each animal feed addition.

## Study Background

BiOWiSH Technologies partnered with Michael D. Sims, President, Virginia Diversified Research Corp. in Harrisonburg, Virginia, to demonstrate the benefits of BiOWiSH™ MultiBio 3P on broiler growth performance. Testing was done over 6 weeks at Virginia Diversified Research Corp.'s Building #6 in Harrisonburg, Virginia.

## Study Implementation

Two treatment groups were arranged as shown below:

Treatment Group	Feed Type	Product Dose (kg/ton)	Replicate Pens	Birds Per Pen	Total
Control	Pellet	-	10	27	270
BiOWiSH™ MultiBio 3P	Pellet	0.5	10	27	270
Total Animals per Trial					540

Straight-run broiler chicks (Cobb 500) were obtained from a commercial hatchery on day of hatch (Day 0). The chicks were assigned to experimental treatment groups based on placement weight. They were placed in 4' x 5' floor pens containing tube feeders, continuous water lines, and new wood shavings. Used litter was introduced in equal amounts on Day 4. Lighting, temperature, and ventilation conditions were monitored daily. Only chicks that appeared healthy were used in the study. Prior to weighing and placement, all chicks were spray-vaccinated for coccidiosis with Coccivac®-B.

Experimental animals were housed for the duration of the study in a metal and cinder block structure with a clay floor and provided access to water and the treatment diet at all times.

An unmedicated, commercial-type (corn/soy) broiler starter ration was formulated according to the best management specifications. BiOWiSH™ MultiBio 3P was added to the control diet at 500g/mT.

Pelleting temperatures of 85 to 90°C achieved with feed in the conditioner area and exposure to steam was for no less than 3 seconds and no more than 7 seconds. The 4" diameter chute was preceded by an active 6" x 1/16" steam nozzle with feed flowing from behind by the nozzle apparatus and around the nozzle apparatus into the chute. The steam was applied as the feed flowed into the chute.



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