

# TECHNICAL SERVICE



# BULLETIN



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No. 272-E

## PROTEK-ALL® IMPROVES BROILER PERFORMANCE

**PROTEK-ALL®** is a multi-vitamin, water-dispersible supplement for poultry and livestock. Compared with other nationally branded water-dispersibles, **PROTEK-ALL®** contains the highest levels of Vitamins E, K, B12, Folic Acid, Pyridoxine, and Biotin.

**PROTEK-ALL®** is widely used in drinking water during periods of stress, such as those that occur during disease, vaccination, debeaking, weaning, castration, scours and temperature extremes.

In addition to such stressful situations, many poultry producers routinely add **PROTEK-ALL®** to the drinking water of day-old birds. To determine whether this practice is valuable, a test was conducted in an environmentally-controlled research facility.

### MATERIALS AND METHODS

One-day-old Ross/Ross male 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. The average weight per chick was 40.9 grams.

There were 18 replicates per treatment, with 10 chicks per replicate. The test consisted of a control and a treatment receiving **PROTEK-ALL®**.

The day-old chicks were placed in Petersime brooding batteries in which the temperature was maintained at 88 degrees F for the first five days of the test, with lower temperatures thereafter. The research room itself averaged 72 degrees F during the test.

The chicks were offered a 22.5% protein, 1419 M.E. Cal/lb. broiler starter feed, in meal form, from the first day. **PROTEK-ALL®** was added to the drinking water of the treatment group at the label directions of two ounces per 128 gallons of drinking water. Fresh water was offered to both control and treatment chicks every day. After the fifth day, all chicks received water without **PROTEK-ALL®**. The test was ended at 17 days of age.

### RESULTS

Chicks receiving **PROTEK-ALL**<sup>®</sup> outperformed control birds for the full 17-day feeding period. Neither group suffered any mortality during the 5-day treatment period. The results for control and **PROTEK-ALL**<sup>®</sup> chicks are as follows:

TREATMENT	GAIN/BIRD	FEED/BIRD	FEED/GAIN
	<u>grams</u>	<u>grams</u>	
CONTROL	419.6	637.4	1.52
TREATMENT	429.7	650.0	1.51
% IMPROVEMENT	2.4	2.0	.7

### CONCLUSIONS

Birds receiving **PROTEK-ALL**<sup>®</sup> demonstrated a definite trend toward increased gain ( $P=.1875$ ). Gain is the most economically important consideration. **PROTEK-ALL**<sup>®</sup>-treated birds ate more feed, gained more weight because of increased consumption, and did so more efficiently than control birds. The advantages of a 5-day treatment were not lost in the subsequent 12 days of the test.

The test indicates that **PROTEK-ALL**<sup>®</sup> helps to improve the performance of newly-hatched poultry.