

The Use of Urease – Inhibitor as Growth Promoter in Broilers

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Abstract:

An experiment was carried out to study the effect of using Wefasan 2010 compound in broiler diets. Ten thousand one day – old non-sexed broiler chicks of commercial line available in Syrian market were used. The birds were distributed in half into two groups (control and treated), each were housed separately in an open system house of commercial design. The houses were equipped with tubular feeders and automatic water drinkers. The concrete floors were covered with softwood shaving. Birds were brooded using whole house brooding beginning at 33°C and reduced by 2°C weekly to a minimum of 19°C.

Diets were formulated using linear programming utilizing plant origin feeding stuffs, mainly yellow corn and 47% soybean meal. Diets were formulated for 0 to 21, 22 to 35 and 35 to 42. Diets were isonitrogenous and isocaloric for each phase of rearing period, and the only difference between control and treated diets was the addition of 330 g of Wefasan 2010/one ton of treated diets. Diets met the amino acids requirements suggested by the NRC (1994). Complete vitamin and trace mineral mixes were obtained from Daoud Poultry Company were used. All diets were pelleted with steam (Daoud Company's Feed Mill), diets fed from 0 to 21 days were fed as crumbles. The experiment lasted for six weeks.

Growth rate, feed consumption and mortality were recorded, and feed conversion ratios were estimated.

The results are shown in Table 1 and 2. The feed conversion ratios at 21 and 42 days of age for treated group were significantly better (1.38 and 1.86) than control group (1.49 and 2.08) ($p < 0.05$), respectively.

The overall final live body weight of treated birds at 42 days of age were also better (10700kg) than control group (10457).

Mortality rate of treated group was lower (1.5%) than control group (3.72).

Conclusion:

In comparison with control group, inclusion of Wefasan 2010 in broilers diets had better conversion ratio, final live weight and lower mortality rate.

Table 1: Results of control

Birds age (day)	Feed consumed (kg)	Live weight (kg)	Conversion ratio %	Feed : Gain ratio
21	124	83	66.9	1.49
42	21700	10457	48.19	2.08

Table 2: Results of treated group

Birds age (day)	Feed consumed (kg)	Live weight (kg)	Conversion ratio %	Feed : Gain ratio
21	110.5	80.3	72.67	1.38
42	19890	10700	53.8	1.86