

## ABSTRACT

This study aims to determine the effect of supplement containing antioxidant vitamins, and vitamin supplement containing amino acids on the body weight of male broiler chickens (*Gallus gallus bankiva*).

In this study 36 of 7 day old broiler chickens were divided into 3 groups each of 12. Group I was the control group fed only the BR1 and drinking water ad libitum. Group II was given BR1 and added supplements containing antioxidants vitamins 5cc/litre in drinking water, while group III was given BR1 and added vitamins supplement containing amino acids in drinking water 0.5g/litre. Measurements of feed and drink intake were taken two times a day. Weighing was carried out once a week, until the age of 28 days. Data of average daily gain (ADG) was analyzed using one-way Anova. Data on feed was calculated using Feed Conversion Rate (FCR).

The result showed group I (control) gain the ADG 53.82g with FCR 1.9, II the ADG 52.5g with FCR 1.9, whereas group III showed ADG of 54.64 g with FCR 1.7.

From the result it can be concluded that supplements containing vitamins and antioxidants at doses 5cc /litre or supplement that contains vitamin and amino acid dose of 0.5g /litre did not show an increase in the growth. The supplementation of vitamin-containing amino acids showed a better effect on weight gain than-vitamin supplements containing antioxidants.

**Keywords:** Broiler chicken, supplement, weight