**Effect of dietary yeast (*Saccharomyces cerevisiae*) supplementation on performance and sero- biochemical profile of commercial broiler**

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Session: 2010–2011

A Production Report Submitted in Partial Satisfaction of the Requirements for the Degree of

DOCTOR OF VETERINARY MEDICINE

**Faculty of Veterinary Medicine**

**Chittagong Veterinary and Animal Sciences University**

**Zakir Hossain Road, Khulshi, Chittagong-4225**

**November, 2017**

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**Production Report Submitted as per approved style and content**

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**November, 2017**

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**Abstract**

The study was conducted to investigate the effect of diets formulated with different levels of *Saccharomyces cerevisiae* yeast on the growth performance and sero-biochemical profiles of broilers. The main objective was to establish yeast as alternative to antibiotic in broiler diet. Day-old broiler chicks were distributed randomly into four dietary treatments T0 (control), T1 (1% Yeast), T2 (1.5% yeast) and T3 (2% yeast) and reared in an open-sided house up to 35 days. Data were collected for feed intake, body weight, body weight gain, feed conversion ratio (FCR), dressing percentage and mortality rate. Blood was collected from 24 randomly selected birds (6 birds from each group and 2 birds from each replicate) at 35th days and analyzed for sero- biochemical parameters. Results indicated that use of 2% yeast had significant effect (P<0.05) on feed intake, FCR and dressing percentage. There were no significant (P>0.05) difference found in different sero-biochemical parameters of broiler. No significant (P>0.05) difference were observed in serum enzyme activity (AST, ALT) between control and yeast treated group. It can be wind up that inclusion of yeast as alternative to antibiotic in poultry diet can be beneficial for growth performance of broilers with no adverse effects.

**Key words**: **Sero-biochemical, broiler, performance, yeast**

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