

**THE EFFECT OF FERMENTED RICE BRAN SUPPLEMENTED BY
Spirulina plantesis TOWARDS TOTAL BLOOD CHOLESTEROL
VALUE ON LAYING HEN CHICKEN**

Ishabella Octaviani

ABSTRACT

The aim of this study was to prove fermented rice bran supplemented with *Spirulina plantesis* can decrease total blood cholesterol on laying hen chicken. Twenty five laying hen chicken were divided into five groups contained five chickens each. Design of experiment in this research was using Complete Randomized Design. There were controls group and four treatments, they were 5%, 10%, 15%, 20% fermented rice bran. For the first seven days each group were adapted to feed formula. On the 8th day, treatments were given fermented rice bran and *Spirulina plantesis*. On the 31st days, blood samples were collected by injected to brachial vein, tubes had 2ml blood sample. On that day directly brought to Veterinary Hospital UNAIR. Statistical analysis used ANOVA then continue with Duncan's Multiple Range Test Test. The results can be summarized as follow : fermented rice bran can decreased total blood cholesterol ($P < 0,05$) between control and treatments group.

Keywords : Fermented rice bran, *Spirulina platensis*, total blood cholesterol.