ABSTRACT

Hidayati, Nur. 2011. The Effect of Combination Treatments of Mas Snail (*Pomaceae Canaliculata*) flour and Fermented Water Spike (*Azolla Pinnata*) Flour to Cholesterol Rate and *Yolk* Colour on Strain Isa Brown Hens of *Layer's* Period. Thesis of Biology Depatment, Science and Technology, Maulana Malik Ibrahim, State Islamic University. Advisor I: Dr. Retno Susilowati., M.Si. Advisor II: Amalia Fitri Andriani., M.Si.

Key words: Isa Brown Chicken, *Pomaceae canaliculata*, *Azolla pinnata*, *Yolk*

Egg is one of foods that has complete nutrient value and meet the standards to be consumed everyday. Recently, it is recognized that the Isa Brown which reased intensifly, generally will spawn eggs with pale *yolk* colour. On the other hand, fowl eggs also containing saturated fat and high cholestrol. The cholestrol is a component inside of food comes from animal comestibles because will cause some deseases. So that, it needs to be manipulated by high protein rate, low fat and high careteniod pigment rate until the cholestrol rate is lower and the *yolk* colour is sharpened. However this food has many contained in mas snail (*Pomaceae canaliculata*) and water spike (*Azolla pinnata*) that are cheep food materials and easy to find.

This research is an experiment that uses 20 hen of Isa Brown aged 19 months. The Analysis uses complete randome experiment (RAL) with 5 treatments and 4 replicates. With a combination 0f ***Pomacea canaliculata*** **flour** and *Azolla pinnata* flour fermented in a row**. P0: (control),** P1 (2,5 % + 10%)**,** P2 (5 % + 7,5%)**,** P3 (7,5 % + 5%)**,** P4 10 % + 2,5%)**.**

This research is intended to make the cholestrol rate lower and the *yolk* colour higher. **The result is analyzed by using** oneway ANOVA. The variables observed are the cholesterol rate and the *yolk*, they are observed in the end of the research. If the result of the calculation is different, it will used regresion with BNT 0,05.

The result showed that there is and effect of combination treatment of of mas snail (*Pomacea Canaliculata*) flour and fermented water spike (*Azolla Pinnata*) flour to the reduction of cholestrol rate and increase of *yolk* of Isa Brown. Treatment which has good potential to reduce of cholestrol rate and increase *yolk* colour is on P4 treatment with cholestrol rate 462.700 mg/100g and *yolk* colour by rate 11 (to based on *yolk colour fan*) the colour is orangish yellow.