

Efektivitas Penambahan Glukosa Pada Bahan Pengencer Kuning Telur Dan Tiga Jenis Ayam Buras Terhadap Kualitas Sperma. (The Effectiveness Of The Addition Of Glucose On Ingredients Diluent Egg Yolk And The Third Type Native Chicken On The Quality Of Sperm)

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ABSTRACT

The purpose of this research is to knowing the adding glucose effectiveness at yolk watery material toward the buras chicken sperm quality, to determine the concentration level of glucose optimum adding toward the sperm quality of buras chicken and to know there is and there isn't the interaction between glucose and the chicken type toward the buras chicken sperm quality. This research uses Factorial Random Design Complete (RALF) consisting of two factors. The first factor is treatment of glucose addition (G) consists of 5 treatments, they are (G0) without glucose (G1), glucose addition at a dose of 0.6 grams, (G2) glucose addition at a dose of 0.9 grams, (G3) glucose addition at a dose of 1.2 grams, (G4) glucose addition at a dose of 1.5 grams. The second factor is chicken type (A), which consists of 3 kinds of chicken, namely (A1) bangkok Chicken, (A2) kampung Chicken, (A3) arab Chicken. There are 15 treatment combinations and each combination treatment was repeated three times until got 45 experimental units. The research results showed that the observation fresh semen maksrokopis from the three nations eligible males used for artificial insemination is a Bangkok chicken with the average volume of 0.85 ml, a characteristic odor, with the consistency of thick white and turbid and has a neutral pH (7.0). Glucose provides the effective influence on egg yolk diluents on motility G1A2 namely in treatment that is equal to 90.6%. Thus by giving 0.6 grams of glucose using chicken sperm has given the best numbers on motility. The chicken type affected on motility, abnormalities, and survival of spermatozoa. Research of the best addition glucose dose that can be applied directly into the Artificial Insemination (AI) should use glucose dose of 0.6 grams of types of chicken sperm.

Keywords: *Glucose, egg yolk, bangkok, kampung, arab chicken, Sperm*