

THE EFFECT OF VARIOUS THAWING TIME ON FROZEN SEMEN OF FAT-TAILED SHEEP FOR VIABILITY, MOTILITY, AND INTACT PLASMA MEMBRANE SPERMATOZOA

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ABSTRACT

The research was aimed to determine the effect and the best thawing time on frozen semen of fat-tailed sheep for viability, motility and intact plasma membrane spermatozoa. This research was conducted at the Teaching Farm Airlangga University, with type of research is true experiment in a Completely Randomized Design (CRD). Each group consisted of 3 treatments and 6 replications. The sample in this study were frozen semen of fat-tailed sheep. The sample criteria used was fat-tailed sheep among 4 years old male, with weight 50 kg. The independent variable in this study was the thawing time of the frozen semen of fat-tailed sheep containing thawing time P1 = 15 seconds, P2 = 30 seconds, P3 = 45 seconds. The dependent variable was the quality of the fat-tailed sheep's spermatozoa. Then the data result processed using ANOVA oneway and continued with Honestly Significant Difference (HSD) test. Based on the result, it's indicated that the difference thawing time showed a tangible influence against ($p < 0,05$) againts the percentage of motility, viability and intact plasma membrane. Highest average percentage obtained by 52,5% for viability, 33,3% for motility and 44,5% for intact plasma membrane on P2 treatment and lowest percentage obtained from P1 treatment with 17,5% for motility, 36,8% for viability and 33,3% for intact plasma membrane.

Keyword : frozen semen, thawing, viability, motility, intact plasma membrane