EFFECT OF THAWING TEMPERATURE ON THE SPERMATOZOA MEMBRANE INTEGRITY AND NECROSIS OF FRISIAN HOLSTEIN FROZEN SEMEN

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ABSTRACT

Aim of this research was to study the effect of thawing temperature on the sperm membrane integrity and necrosis of Friesian Holstein (FH) frozen semen. This research was conducted for two months, during April-March 2015. For treatments, frozen semen were thawed at temperature 27°C (P1), 37°C (P2), and 39°C (P3). This research used Completely Randomised Design (CRD). Obtained data were analysed using Analysis of Variance (ANOVA) followed by Least Significant Difference (LSD) test. Result of membrane integrity post-thawing were 17.00±2.68 for P1 (27°C), 21.33±3.38 for P2 (37°C), and 8.16±1.72 for P3 (39°C). While, result of necrosis were 9.33±1.63, 13.00±209, and 17.33±2.06 for P1 (27°C), P2 (37°C), and P3 (39°C) respectively. Result showed that there were significant differences (p<0.05).

Keywords: Friesian Holstein bull, thawing temperatures, membrane integrity, necrosis