MOTILITY AND LIVE PERCENTAGE TEST IN RAM’S SPERMATOZOA
IN ISOTONIC COMMERCIAL LIQUID AND EGG YOLK
ASSORTMENT EXTENDER

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ABSTRACT

The successful program of artificial insemination in ram is determined by the quality of sperm that are used. Therefore, it is important to maintain the quality of sperm during and after storage in low temperature. The aims of this study was to find out the influence of Isotonic Commercial Liquid (ICL) and Egg Yolk assortment extender in motility and live percentages of ram’s spermatozoa. Sperm was collected once every three days and eight times using artificial vagina from the same ram. Semen was divided into three groups of extenders. Control Group (P0) using Egg Yolk-Citrate (1:4), group 1 (P1) using Egg Yolk-Isotonic Commercial Liquid (1:4) and group 2 (P2) using Egg Yolk-Isotonic Commercial Liquid-Citrate (1:2:2). Its were monitored every day at the same time in seven days after storage at 5°C. The results showed that the degradation of motility percentage in P0 and P2 was relative stabilize in comparation with P1 experiencing of significant degradation at the third day and none at the fourth day. Live percentages of P0 and P2 was significantly different (P<0.05), P1 experiencing of significant degradation at the third day of motility percentage and death in fifth day. The conclusion of this experiment is Isotonic Commercial Liquid (ICL) and Egg Yolk assortment extender can be influence motility and live percentages of ram’s spermatozoa.

Key word : Isotonic Commercial Liquid, Egg Yolk, Citrate, Ram’s Spermatozoa