

SPERM QUALITY MERINO SHEEP AND FAT – TAILED SHEEP POST THAWING USING A DILUENT CONTAINING VEGETABLE LECITHIN WITH A DIFFERENT EQUILIBRATION TIME

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ABSTRACT

The aims of this research was to determine effect of equilibration time extender to post thawing motility and viability of merino sheep and fat – tailed sheep sperms in thinners vegetable lecithin. This research used Merino sheep and Fat – tailed sheep fresh semen that collected in artificial vagina and divided to six treatment. The first treatment (P1) was semen equilibration 1 hour. The second treatment (P2) was semen equilibration 2 hour. The Third treatment (P3) was semen equilibration 3 hour for Merino sheep. The fourth treatment(P4) was semen equilibration 1 hour, the fifth treatment (P5) was semen equilibration 2 hour, the sixth treatment (P6) was semen equilibration 3 hour for Fat – tailed sheep. Experiment design used was randomized complete draft factorial design. The result was analysed used ANOVA (Analysis of Variant). The post thawing motility's result Merino sheep is (P1) $13,75 \pm 2,500$, (P2) $25,00 \pm 4,082$, and (P3) $10,00 \pm 4,082$. The post thawing viability's result Merino sheep is (P1) $33,50 \pm 5,066$, (P2) $38,50 \pm 3,873$, and (P3) $25,00 \pm 10,231$, showed that the inherent motility and viability different treatment groups significantly with the second treatment (P2) was semen equilibration 2 hour. The post thawing motility's result Fat - tailed sheep is (P1) $6,25 \pm 2,500$, (P2) $22,50 \pm 2,887$, and (P3) $16,25 \pm 4,787$. The post thawing viability's result Fat - tailed sheep is (P1) $20,75 \pm 5,737$, (P2) $34,50 \pm 1,291$, and (P3) $29,25 \pm 4,113$, showed that the inherent motility and viability different treatment groups significantly with the fifth treatment (P5) was semen equilibration 2 hour.

Keyword : merino sheep , fat – tailed sheep, equilibration, motility, viability, vegetable lecithin.