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PENGARUH LEVEL GLISEROL DAN WAKTU EQUILIBRASI YANG BERBEDA TERHADAP KUALITAS SPERMATOZOA KERBAU

Harpahmi S.Pt, dibawahbimbingan
Prof. Dr. Ir. Zaituni Udin, MSc dan **Dr. Ir. H. Hendri Dt. TNH, MS**
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Universitas Andalas, 2012

ABSTRAK

Four ejaculates obtained from a buffalo (age 3 year old) in BIBD Tuah Sakato Paykumbuh were used to study effect of different concentration of glycerol and different time of equilibration on post thawing sperm motility, percentage of living sperm, percentage of abnormality and plasma membrane integrity. Semen was diluted with tris citrate eeg yolk and five different concentration of glycerol. The experiment used a Completely Randomized Block Design with two factor, factor A is different concentration of glycerol (6%, 7%, 8%, 9% and 10%), factor B is different time of equilibration (3, 5 and 7 hours). The results showed that post thawing sperm motility, percentage of living sperm, percentage of abnormality and plasma membrane integrity for factor A (different concentration of glycerol) were highly significant (P<0.01). The effect of factor B (different time of equilibration) showed that there were higly significant (P<0.01) on post thawing sperm motility, percentage of living sperm, and plasma membrane integrity but showed were significant (P<0.05) on post thawing abnormality. In conclusion that the level glycerol at 7% concentration and time of equilibration at 5 hours were better in protecting the quality of the spermatozoa than other treatments.

Keywords : Glycerol, equilibration, sperm quality.

Tesis ini telah dipertahankan di depan sidang penguji dan dinyatakan lulus pada tanggal Abstrak telah disetujui oleh penguji:

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