THE EFFECT OF ADDITION HY ANTISERA ON EGG YOLK SKIM DILUENT TO PERCENTAGE OF X AND Y SPERMATOZOA VIABILITY ON SIMENTAL CATTLE SEMEN

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ABSTRACT

This research aimed to determine the percentage viability of X and Y spermatozoa after treated by addition HY antisera on egg yolk skim diluent on Simental Cattle semen. This study was used eight samples, four samples as a control and four samples treated by HY antisera with incubation time 15, 30, 45 and 60 minutes at 37°C. Spermatozoa preparation were stained with eosin-negrosin then examined by “optilab viewer” to count the viability of spermatozoa, length and width of head spermatozoa. Result of X spermatozoa was not significant difference (P>0.05) with the best percentage viability X spermatozoa in control and treated HY antisera in 15 minutes. Y spermatozoa showed significant difference (P<0.05) with the best percentage viability Y spermatozoa in control in 15 minutes. HY antisera addition had no effect on the percentage viability of X spermatozoa but had effect decreased on percentage viability of Y spermatozoa.

Key words: cattle, spermatozoa, HY antisera, viability