

**THE EFFECT OF ADDITION HY ANTISERA CEMENT  
IN DIARY CATTLE FRIESIAN HOLSTEIN AGAINST  
HEAD OF BIOMETRI SPERMATOZOA**

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**ABSTRACT**

The main purpose of this study was to determine the influence of HY antisera to separate X and Y chromosomes to head size ratio between the X chromosome sperm with the Y chromosome sperm. This study uses 8 samples consisting of 4 samples as a control and 4 sample as treatment, with different incubation time is 5, 10, 15 and 20 minutes. Every sample of each incubation time made preparations with negrosin eosin staining seen with optilab viewer to see the results of the live and dead spermatozoa and the measured length times the width of the head. The result showed that there was a significant difference ( $p < 0.05$ ). From these results indicate that there are differences in the size of the sperm head test against the control treatment.

**Keyword :** sperm, HY antisera, chromosome, biometry