

## HEAD SIZE AND QUALITY OF SHEEP SPERMATOZOA AFTER PROCESS OF SEPARATION X AND Y CHROMOSOME WITH COLUMN ALBUMIN METHOD USING SHEEP BLOOD SERUM

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### ABSTRACT

This Research aims to determine the quality (motility, viability, and membran integrity) and head size of sheep spermatozoa after a process of separation X and Y chromosome bearing spermatozoa with column albumin method using sheep blood serum. This research consisted of three treatments, namely P0, P1, and P2, each treatment consisted of ten replications. P0 is a control treatment that contain 0,5 ml spermatozoa under the layer and 1 ml BO in the upper layer, P1 is a treatment that contain 0,5 ml spermatozoa in the under layer and 1 ml BSA in upper layer, P2 is a treatment that contain 0,5 ml spermatozoa in under layer and 1 ml sheep blood serum in upper layer. Researchers try to compare the blood serum sheep with BSA as a media separator when viewed from the control treatment. Data obtained from the quality and head size of sheep spermatozoa, the statistic test is analize using ANOVA and Tukey test 5% significance. The reuslt showed that sheep blood serum and BSA did not affect the quality of spermatozoa, the highest affect shown by the control treatment containing BO media. Head size of spermatozoa X and Y at P1 and P2 show a difference to the P0, P1 ratio on chromosome X and Y is 28% : 72% and in comparison P2 is 32% :68%.

**Keyword:** Separating Spermatozoa, Sheep Blood Serum, Column Albumin Method, Semen Quality, and Spermatozoa Head Size