

**EFFECT OF DURATION ON SEXING SPERMATOZOA BALI BULL ON
QUALITY AND EFFECTIVENESS SEXING SPERMATOZOA
USED ESS (Electric Separation Sperm)**

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ABSTRACT

The purpose of this research is to know the difference of quality (viability, motility and abnormality) spermatozoa Bali bull result of sexing used ESS which powered by electricity for five minutes and ten minutes on side of anode and cathode and know the difference effectiveness of separation of spermatozoa Bali bull which powered by electricity for five minutes and ten minutes on side of anode and cathode. This study used Bali bulls aged 4 to 7 years old with motility above 45% and below 60%. This research used egg yolk tris dilution. Sexing spermatozoa used ESS which powered by electricity for five minutes and ten minutes on side of anode and cathode. The results of this study showed quality (viability, motility, and abnormality) decreased. The best quality of sexing spermatozoa is on five minutes duration. The best effectiveness of sexing spermatozoa is on the ten minute duration on the side of the cathode of X sperm $62,17 \pm 0,240\%$ and on the side of anode Y sperm $67,33 \pm 1,03\%$.

Keywords: Sexing sperm, Electric Separating Sperm , Bali bull, electrophoresis, Quality sexing sperm