

THE EFFECT OF EXTENDERS PHYSIOLOGICAL NaCl AND EGG YOLK CITRATE TO THE VIABILITY AND MOTILITY OF AFRICAN CATFISH'S (*Clarias gariepinus*) SPERMATOZOA

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ABSTRACT

The aim of this research was to know the effect of different extenders physiological NaCl and egg yolk citrate on viability and motility of *Clarias gariepinus*'s spermatozoa. This research used Randomized Block Design with six repetitions. Milt was mixed with extenders (1:10) water as control, NaCl (P1), and egg yolk citrate (P2), then examined the viability and motility of *Clarias gariepinus*'s spermatozoa at 0 minute. Then incubated at 5°C and repeat examined at 15 minutes and 30 minutes. Spermatozoa motility was observed using light microscopy (400x). Spermatozoa viability was observed with eosin negrosin staining by light microscopy (400x). The result of the research showed that extenders effect the percentage of viability and motility there is difference viability dan motility of *clarias gariepinus*'s spermatozoa in third extenders. The extenders indicate significant difference at 30 minutes. The egg yolk citrate able to maintain the viability and motility of African catfish's spermatozoa after incubated for 30 minutes compared to the water and NaCl.

Keywords : NaCl fisiologis, egg yolk citrate, viability, motility, African catfish sperm