

The cryoprotectant effect of dimethyl formamide on spermatozoa quality of carp fish cyprinus carpio race majalaya 24 hours post-cryopreservation

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Abstrak

The effect of Dimethyl Formamide (DMF) as a cryoprotectant on spermatozoa quality of carp fish *Cyprinus carpio* race Majalaya 24 hours post-cryopreservation was studied. This study was conducted in the Environmental Engineering Laboratory, Puspiptek, Serpong. Sperm was collected by the hand stripping method and were immediately diluted with extender [6J and cryoprotectant (DMF). The final concentrations of DMF were 0, 3.75, 7.5, and 11.25%, respectively. Sperm were frozen in liquid nitrogen for 24 hours. All sperm were re-examined after thawing for motility, viability, and abnormality. The highest percentage of the motility and the viability of preserved sperm was showed on the DMF 7.5%. On the other hand the lowest percentage of the abnormality of preserved sperm was demonstrated by the DMF 7.5% also. Accordingly, DMF 7.5% is the optimum levels that could preserved spermatozoa still in a good quality 24 hours post-cryopreservation.