

Pengaruh Bioenkapsulasi Artemia dengan Emulsi Asam Lemak Essensial terhadap Pertumbuhan dan Kelulushidupan Beberapa Jenis Larva Ikan

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ABSTRAK

The objective of the research, to investigate the effect of artemia enriched with high unsaturated fatty acid on the growth and survival rate of niles, comon carp, and catfish larvae. The research was conducted at Technology Aquaculture Laboratory and Fish Breeding Laboratory. Three doses of emulsion of essential fatty acid (1 ml: 1.5 ml and 2 ml per litre hatching water) and one control (without essential fatty acid) were treated to three kinds of those fish larvae. The best growth of common carp, niles, and catfish larvae are 0.53 gram, 0.61 gram and 0.35 gram respectively. The lowest growth of common carp larvae, Nile larvae and catfish larvae are 0.30 gram, 0.16 gram and 0.15 gram respectively. The best survival rate of common carp larvae is 78.76% and the lowest is 57.33% while the survival rate of the Nile larvae is only 67.33% and the lowest one is 50.66%. Survival rate of catfish larvae 69.33% (the best growth) and the lowest growth is 54.67%. Water quality parameters is :DO (3-7.5 ppm), CO₂ (4-7 ppm), temperature (25-31⁰C), pH (7-8) and NH₃ (0.03-0.26 ppm)

Keywords: Artemia, Commom crap, Catfish, Emulsion, Essensial fatty acid