ABSTRACT

THE ADDITION OF BIOFLOC MEAL AS FEED SUPPLEMENTS OF SANGKURIANG CATFISH (*Clarias gariepinus*)

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Catfish needs feed that contain 30-40% protein to support growth. From total feed which is given, 25% of the feed that can be converted into fish biomass, the rest becomes waste (ammonia and feces). The aquaculture’s waste can be converted as biofloc by heterotrophic bacteria. Biofloc contains proteins of bacteria and polyhydroxybutyrate which are used as the energy source and can enhance the growth of fish. All the time, application of biofloc is being used for water quality improvement. The biofloc which is used as biofloc meal for feed supplement had been rarely applied. This research aimed to know the addition supplemental biofloc meal to the growth of sangkuriang catfish. The research design used completely randomized design with four treatments and three replicates. The treatments are gives feed with the differently of addition biofloc meal (0%, 5%, 10%, dan 15%). Feed tested on juvenile sangkuriang catfish with size of 5-6 cm and weighs of 2-2.5 gram and were reared in container of 0.5x0.5x0.5 m for 35 days. The results showed that the use of biofloc meal significantly affected the growth of sangkuriang catfish. The more addition of biofloc meal, the higher catfish growth.

**Keywords:** sangkuriang catfish, biofloc meal, supplement, growth, polyhydroxybutyrate