MEASUREMENT OF DRY MATTER DIGESTIBILITY, CRUDE PROTEIN AND CRUDE FIBER ROUGH FEED TILAPIA (*Oreochromis niloticus*) USING SURGICAL TECHNIQUE

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ABSTRACT

Tilapia (Oreochromis niloticus) is one of the commodity potential of freshwater fish as a source of animal protein and has economic value as a food fish (Khairuman and Amri, 2008). Feed is a determinant of growth and is the largest cost in production (60-70%) in the cultivation of fish, so it needs an effective and efficient management. Some good material condition to be given is to meet nutrient such as protein, fat, carbohydrates, vitamins and minerals. Artificial feeding is not only aimed at increasing production, but the efficiency of feed used can be ingested by fish. How to measure the efficiency of feed for fish body is through digestibility.

This study aimed to determine differences in digestibility of dry matter, crude protein and crude fiber in the feed mill different tilapia (O. niloticus). The research design used in this study was Completely Randomized Design (CRD). Completely Randomized Design (CRD). The variables measured were dry matter digestibility, crude protein and crude fiber in the feed tilapia. Analysis of the data processed using Analysis of Variance (ANOVA) to determine differences in treatment given. If there is a difference then it continued with test distance Regression Duncan (Duncan's Multiple Range Test) with a level of 5%.

The research concludes that there is not significantly different ($p>0.01$) in dry matter digestibility values, not significantly different ($p>0.01$) in crude protein digestibility values and not significantly different ($p>0.01$) in fiber digestibility values rough to feed tilapia. Highest dry matter digestibility values found in treatment P1 (98,66%), the highest crude protein found in treatment P1 (99,58%) and the highest crude fiber present in treatment P3 (98,86%). These results say that the P1, P2 and P3 treatment of feed efficiency for ingested by the tilapia.

KEYWORDS : **Digestibility Dry Ingredients, Crude Protein and Crude Fiber, Feed Production Plant, Tilapia, Surgical Technique**