Abstract

Research on the use of alternative local raw materials in tilapia feed formulation is necessary to reduce dependence on conventional feed ingredients, the prices of which are increasingly rising. This study aims to analyze the effect of using chicken feather meal and moringa leaves with turmeric as a phytobiotic on the chemical quality of tilapia (Oreochromis niloticus) feed and to determine the best treatment based on the results of proximate analysis. The study used a Completely Randomized Design (CRD) with three treatments and three replications. Data were analyzed using ANOVA and a further LSD test. The results showed that the treatment had a highly significant effect ($P<0.05$) on the protein, moisture, fat, crude fiber, and carbohydrate content of the feed. Treatment P3 produced the highest protein content at 22.60%, ash content at 6.65%, crude fiber at 6.55%, and carbohydrate at 8.45%, while treatment P2 produced the highest fat content at 6.44%. Based on the research results, a feed formulation based on chicken feather meal, moringa leaves, and turmeric has the potential to be used as an alternative feed for tilapia, offering good nutritional quality and supporting more efficient and sustainable cultivation.

Keywords: *Moringa leaves; Phytobiotics; Tilapia; Feed chemistry; Chicken feather meal*

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