

## ABSTRAK

### **KAJIAN PENAMBAHAN *DISTILLERS DRIED GRAINS WITH SOLUBLES* (DDGS) DAN TAURIN DALAM PAKAN BERBASIS TEPUNG TULANG DAN DAGING TERHADAP PERFORMA PERTUMBUHAN BENIH LELE *Clarias gariepinus* (BURCHELL, 1822)**

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Permintaan akan bahan baku tepung ikan untuk pakan ikan di pasaran terus meningkat. Oleh karena itu, perlu adanya bahan baku pakan alternatif yang dapat menekan biaya produksi pakan serta menghasilkan pakan yang berkualitas sehingga dapat menunjang pertumbuhan ikan. Penelitian ini bertujuan untuk mengevaluasi pengaruh penambahan *distillers dried grains with solubles* (DDGS) dan taurin dalam pakan berbasis tepung tulang dan daging terhadap performa pertumbuhan benih lele (*Clarias gariepinus*). Penelitian ini menggunakan rancangan acak lengkap (RAL) yang terdiri dari 6 perlakuan dengan 3 kali ulangan. Perlakuan tersebut meliputi P1 (TTD 19% + DDGS 0% + taurin 0%), P2 (TTD 34,7% + DDGS 10% + taurin 0%), P3 (TTD 34,7% + DDGS 34,7% + taurin 0,5%), P4 (TTD 34,7% + DDGS 10% + taurin 0,5%), P5 (TTD 0% + DDGS 15% + taurin 0,5%), dan P6 (TTD 34,7% + DDGS 20% + taurin 0,5%). Hasil penelitian menunjukkan penambahan DDGS dan taurin dalam pakan berbasis tepung tulang dan daging memberikan pengaruh yang berbeda nyata, tetapi lebih rendah daripada perlakuan pakan yang diberi tepung ikan terhadap pertumbuhan bobot mutlak, laju pertumbuhan spesifik, dan rasio konversi pakan, namun tidak memberikan pengaruh berbeda nyata terhadap pertumbuhan panjang mutlak. Penggunaan DDGS dan taurin dalam pakan dapat digunakan sebagai bahan substitusi tepung kedelai dalam pakan dengan meningkatkan dosis taurin.

Kata kunci : benih lele, *distillers dried grains with solubles*, pakan, pertumbuhan.

## ABSTRACT

### **THE STUDY OF DISTILLERS DRIED GRAINS WITH SOLUBLES (DDGS) AND TAURINE ADDITION IN MEAT AND BONE MEAL BASED FEED ON THE GROWTH PERFORMANCE OF CATFISH *Clarias gariepinus* (BURCHELL, 1822) FRY**

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The demand for fishmeal as raw materials for fish feed in the market continues to increase. Therefore, there is a need for alternative feed raw materials that can reduce feed production costs and produce quality feed so that it can support fish growth. This study aimed to evaluate the effect of adding distillers dried grains with solubles (DDGS) and taurine in meat and bone meal based feed on the growth performance of catfish (*Clarias gariepinus*) fry. This study used a completely randomized design (CRD) consisting of 6 treatments with 3 replications. The treatment included P1 (MBM 19% + DDGS 0% + taurine 0%), P2 (MBM 34.7% + DDGS 10% + taurine 0%), P3 (MBM 34.7% + DDGS 5% + taurine 0.5%), P4 (MBM 34.7% + DDGS 10% + taurine 0.5%), P5 (MBM 34.7% + DDGS 15% + taurine 0.5%), and P6 (MBM 34.7% + DDGS 20% + taurine 0.5%). The results showed that the addition of DDGS and taurine in meat and bone meal based feed had a significantly different effect, but lower than the treatment with fish meal on absolute body weight growth, specific growth rate, and feed conversion ratio, but did not have a significantly different effect on absolute body length growth. The use of DDGS and taurine in feed as a substitute for soybean flour in feed by increasing the dose of taurine.

Key words: catfish fry, distillers dried grains with solubles, feed, growth.