Studies on Production and Cost of Mass Culture of *Diaphanosoma* sp., Feeding with 4 Different Feeds

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Abstract

Mass culture of *Diaphanosoma* sp. was conducted in 500 liters fiberglass tank by using various feeds to clarify the suitable feed to increase highest production with the lowest cost. Four feed types were *Chlorella* sp., *Chlorella* sp.+ fermented fish silage, solution of blended rice bran and solution of fermented fish silage. *Diaphanosoma* sp. stocking density 2.5 g/tank were fed experimental feeds for 14 days. They were harvested 50% of cultured volume at the date of 4, 9 and 14 days. Results showed that the *Chlorella* sp.+ fish fermented silage obtained the highest weight and lowest cost of production. The weight of *Diaphanosoma* sp. at the 1ˢᵗ, 2ⁿᵈ and 3ʳᵈ harvested periods were 3.33, 10.67 and 9.33 g/500 liters respectively. The total product at the end of experiment was highest at 23.33 g/500 liters. The production cost was lowest at 104.54 baht, which significant different with the others (p<0.05).

**Key words**: *Diaphanosoma* sp., fermented fish silage feed, rice bran feed, *Chlorella* sp. feed, mass culture.

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