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Seaweed as a source of carbohydrates in the feed of milkfish (Chanoschanos Forsskal)

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Abstract: Seaweed is known to have many benefits as a source of nutrients in foods including in fish feed. Seaweed is known to influence the improvement of growth performance, nutrient absorption, the chemical composition of the body, fat metabolism and disease resistance. This study aimed to test several types of seaweed fermentation of the green and brown strains of *Kappaphycusalvarezii*, *Gracillariagigas*, and *Sargasum* sp. as carbohydrates and its role in the growth, survival, digestibility of feed and chemical composition of the body of the fish juvenile.

The results showed an increase in growth, survival, level of digestibility and chemical composition of the body. The highest growth rates shown by seaweed Sargasum sp. amounting to 150.45 ± 10.06 provisional highest survival rate seen in the use of green strain K.alvarezii 66.67 ± 6.67 , the level of digestibility of carbohydrates in the range of 50.22% - 57.19% and protein between 64.88%-66.65%. The highest increase in glycogen in the liver looks at the use of green strain as much as 6.29 ± 0.89 , while the muscles seen in the G. gigas group as much as 7.29 ± 2.05 . These results indicate that the use of seaweed to the diet had a positive influence on fish juvenile.

Keywords: Seaweed, source of carbohydrates, milkfish, *Chanoschanos* Forsskal.

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