

## عنوان مقاله:

Research Article: Effects of dietary protein levels on growth performance, amino and Fatty acids of juvenile sandfish, (Holothuria scabra (Jaeger, איזי)) (Holothuria scabra)

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## خلاصه مقاله:

The experiment was carried out for IYo days to determine the optimal dietary protein requirement for the growth of sandfish, Holothuria scabra. The experiment used IY plastic containers sized  $\Delta \P \times F \P \times \Psi \$  cm, and each container stocked  $\Psi_{\circ}$  individual hatchery-produced sandfish juveniles (initial weight=  $\Upsilon.\Psi \circ \pm \circ.\circ I$  g). Experimental diets with different levels of protein, i.e.,  $I_{\circ} \%$  (A),  $\Upsilon \circ \%$  (B), and  $\Psi \circ \%$  (C) as a treatment; it was as dry pellet with  $\Psi$  mm diameters. Sandfish were fed with experimental diets once in the afternoon at  $\Upsilon \%$  biomass. Results of the experiment showed that sandfish fed a  $\Upsilon \circ \%$  protein diet has the highest final weight ( $\Delta.I_{\circ} \pm \circ.\circ \Upsilon$  g), specific growth rate (SGR;  $\circ.\Delta\Psi \pm \circ.\circ I \%$  day-I), and feed efficieny (FE;  $\Gamma \Upsilon.\Gamma A \pm \circ.I\Psi$ ) and is significantly different compared to other treatments (p< $\circ.\circ \Delta$ ). On the other hand, feeding with different dietary protein levels did not influence the survival rate greatly (p> $\circ.\circ \Delta$ ), ranging from  $A\Delta.\circ - \P \Delta.\Lambda\Psi$ . The total amino acid content of sandfish juveniles in treatment B was highest ( $\Gamma.\Gamma \Upsilon \%$ ) and followed by treatments A and C of  $\circ.\Gamma I \%$ ;  $\circ.\Psi \Psi \%$  respectively. Results of the present study found the best feed was treatment B at  $Y_{\circ} \%$  protein content. Moreover, based on statistical analyses, it is suggested that dietary protein requirement for ...maximum growth of juvenile sandfish is I %

**کلمات کلیدی:** Amino acid, Fatty acid, Growth, Protein level, Sandfish



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