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The Effect of Different Levels of Prebiotic Immunowall on the Growth Indices and Carcass Composition in Farmed Great Sturgeon Juveniles (*Huso huso*)

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Abstract

This study was carried out to evaluate the effect of different levels of prebiotic Immunowall (IW) on the growth indices and carcass composition in farmed great sturgeon juveniles (*Huso huso*) for 8 weeks. After one month acclimatization period to rearing conditions and basal diet, 270 farmed great sturgeon juveniles weighing 95.30 ± 8.99 g were distributed into nine 2000-L fiberglass tanks in three treatments (Control, IW 1% and IW 3%) in three replicates (completely randomized design) and kept at a density of 30 fish per tank. At the end of 8th week, final weight, final length, body weight increase (BWI), specific growth rate (SGR), average daily growth (ADG), protein efficiency ratio (PER), feed conversion ratio (FCR), and condition factor (CF) in fish fed on IW in levels 1% and 3% showed significant differences compared with the control ($P<0.05$). Crude protein of carcass in fish fed on IW at 3% showed a significant increase in comparison with the control ($P<0.05$). The results showed that Immunowall at level of 3% can influence enhancement of growth performance and feed efficiency in farmed great sturgeon juveniles.

Keywords: *Prebiotic, Immunowall, Growth Indices, Carcass Composition and Great Sturgeon (Huso huso).*