

INFLUENCE OF ENZYME AND PHYTOADDITIVE DIETS ON GROWTH PERFORMANCE AND MAINTENANCE STATUS OF SIBERIAN STURGEON (*ACIPENSER BAERII*, BRANDT, 1869)

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Abstract

*The researches were performed on a population of 4271 specimens of Siberian sturgeon (*Acipenser baerii*), with an average mass of 7.64 ± 0.45 g/specimen, obtained in the pilot station of ICDEAPA Galati. The experiment was performed in the pilot recirculating system belonging to the Research and Development Institute for Aquatic Ecology, Fisheries and Aquaculture in Galați, for a period of 12 weeks (May-June 2021). For the experimental group, an experimental feeding diet was conceived, supplemented with 0.05% digestive enzymes and 0.15% phytoadditives consisting of a mixture of aromatics. The aim of this research is to investigate how diets supplemented with enzymes and phytoadditives influence the growth performance and biochemical composition of meat in the 60 days old Siberian sturgeon species (*Acipenser baerii*), reared in a recirculating system. During the 84 experimental days, the biological material from the experimental group fed with feed to which enzymes and phytoadditives were added, recorded an individual growth increase by 33.03 g/specimen higher, compared to the control group, a specific growth rate (SGR) of 2.13% / day and a feed conversion ratio (FCR) of 0.76 kg. The improved diet with enzymes and phytoadditives, used in the nutrition of Siberian sturgeon, favorably influenced the nutritional quality of the biological material involved in the experiment.*

Key words: *Acipenser baerii*, recirculating system, growth parameters, maintenance status