study of Multi_ enzymes Combo Effect On Growth and Hematological Indices of Immune System in Siberian Sturgeon (Acipenser Baerii)Juveniles

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The main reason for using enzymes to improve the nutritional value of food. All organisms use enzymes for digestion of the enzyme is produced by animals or microbes in the digestive tract. In the summer of 94 present study aimed to investigate the effect of different levels of multi-enzyme combo (combo) on growth, immune system and blood factors Siberian sturgeon (Acipenser baerii) Fisheries and Marine Research at the Center for doctor Saturn (Chamkhaleh) founded and was performed. In this pilot project fish with an average weight of $001/0 \pm 40$ g in the 500-liter tank for a week at a density of 5 fish were fed for the change to a workshop with food, completely random short time later, the fish in the form of 4 Add the fish were feeding ground for 60 days. Biometrics at the beginning, middle and end of the study period, blood and immune system, growth parameters and reference juveniles on the basis of valid procedures were performed The results showed that the increase in the Multi enzyme causes a significant increase in safety factors and feed conversion ratio, specific growth rate, survival rate, percent of body weight, condition factor and daily growth in the Siberian sturgeon and Maximum recovery of growth factors in combination 1/5% multi-enzyme in the diet were observed study in determination of the amount of multi-enzyme combo to promote the growth and meat quality Siberian sturgeon farmed by studying its impact on growth of Siberian sturgeon under one year to access was performed. In terms of safety factors of anemia and red blood cells, eosinophils, hematocrit, hemoglobin and blood indices ((MCV, MCH, MCHC)) results showed that changes in all parameters was observed, but significant differences can be noted and the results of the lysozyme, IGM, ALP represents the difference was significant. The results showed that the use of multienzyme combination combo in the diet, significant positive effects on the

improvement of growth factors and Siberian sturgeon is safety.

Keywords: Acipenser baerii, multi enzyme combo, Growth performance, immune responses, blood parameters, digestive enzymes

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