The effect of Celmanax liquid prebiotic on some of hematological parameters on Beluga juvenile (Huso huso)

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Abstract

This study aimed to determine the effects of 1 g/kg prebiotic Celmanax liquid on pen culture in the center of the fishing and processing Ashuradeh (Chalasht) from the Gorgan Bay on some hematological parameters of male and female beluga (*Huso huso*) with the mean weight of 4-5 kg for 120 days. At the end of experiments, the results showed that there were no significant differences between WBCc, RBCc and Ht in fish fed with prebiotic and the control (p>0.05). But, diet supplementation significantly increased Hb concentration (p<0.05). Also, by comparing the level of these index in female species was higher than significantly compared with male beluga juvenile (p<0.05). In conclusion, our findings suggest that using Celmanax liquid prebiotic at the level of 1 g/kg with increasing Hemoglobin concentration leads to an increase the blood ability for delivery O2 in tissues and transfer CO2 on gills. **Keywords:** Prebiotic, Beluga, Feeding, Blood parameters, Pen culture.