

Features of Artificial Ecosystem Formation for Hydrobiont Cultivation

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Abstract: A comparative analysis of the degree of contamination by chemical compounds of source tap water and water in the sturgeon pool is presented. High content of nitrite-, nitrate-, chloride-, sulfate-, and phosphate ions in the sturgeon habitat aquatic environment and at all stages of biological treatment necessitates the selection of aquatic plants for water purification in a recirculating aquaculture system. Microflora in biological filters converts part of the toxic metabolites of hydrobionts into less toxic compounds, which are assimilated by plants, thereby purifying the water.