

First report on the isolation of *Streptococcus* sp. from wild fish around *Lates calcalifer* cages in the Persian Gulf

Mehrdad Ranjbaran¹, Ashkan Aghdari ², Ya'qub Mohammadi³, Khayyar Khosravi Katouli⁴, Ida Khazaali ⁵

1, 2, 3, 4, 5 - Fish breeding company in Nixa development cage.

2- Agricultural Research and Development Research Institute, National Institute of Fisheries Research, Shrimp Research Institute of Iran, Bushehr, Iran

*Corresponding Author: a_arzhan@yahoo.com

Abstract

The interconnection between crayfish and seagrass that often swim around the cage for food or enter the cage, the risk of transmission of infectious diseases caused by sea creatures, such as the various sex strains of *Streptococcus* (*Streptococcus* sp.), Which is naturally found in wild fish. In this study, in the study of Sergeant Major, which is the dominant species of wild fish around Asian bosonic fish cages in the Persian Gulf in the Garget region, the *Streptococcus* bacteria isolated from internal organs with 90% prevalence. These results are a warning to the management of breeding that, in the case of non-compliance with the hygiene principles, the appropriate density of fish storage in the cage and the prevention of unwanted fish entering the cage, the occurrence of *Streptococcosis*, given that the wild fish around the cage as a reservoir of the disease Are probable. The high prevalence of *Streptococcus* bacteria indicates the importance of vaccine and vaccine production studies to prevent *Streptococcus* disease.

Keywords: Asian bass, cage culture, bacterial disease, *Streptococcosis*