In vitro testing inhibitory effect of *Staphylococcus equorum* on growth of *Aeromonas dhakensis* strain isolated from Caspian Sea Bream (*Abramis brama orientalis*) intestine

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Abstract
The aim of the present study is to evaluate the inhibitory effect of bacterial strain *Staphylococcus equorum* on growth performance of pathogenic bacteria, *Aeromonas dhakensis*. As *A. dhakensis* is a pathogenic strain for many kind of the fish species in the domain of aquaculture industry and being introduced as a threat, it will be beneficial to inhibit this bacterium by use of a biological procedure instead of using chemical antibiotics, such as applying probiotics. *Staphylococcus equorum* seems to be a good candidate among the staphylococci group. In this regard after preparing pure cultures of both strains, the inhibitory effect was being determined through inducing both strains in BHI media and monitor the growth curve and also inducing the strains in TSA media and counting the colony-forming units. The results showed that *Staphylococcus equorum* has an inhibitory effect on *Aeromonas dhakensis,* but the reduction of colony forming units were not significant (P>0/05), and can be introduced as a remarkable probiotic strain, but it should be mentioned that it is necessary to distinct the inhibitory process.

Keywords: *Staphylococcus equorum, Aeromonas dhakensis, Abramis brama orientalis,* Inhibitory effect.