

## عنوان مقاله:

Research Article: Possible effects of probiotic strains on suppression of *Vibrio* and enhancement of growth in rotifer, *Brachionus plicatilis*

## محل انتشار:

مجله علوم شیلات ایران، دوره 19، شماره 6 (سال: 1399)

تعداد صفحات اصل مقاله: 16

## نویسندگان:

J. Sahandi - *College of Marine Life Science, Ocean University of China, Qingdao, China*

P. Sorgeloos - *Lab of Aquaculture and Artemia Reference Center, Ghent University, Ghent, Belgium*

H. Xiao - *College of Marine Life Science, Ocean University of China, Qingdao, China*

H. Wang - *College of Marine Life Science, Ocean University of China, Qingdao, China*

Z. Qi - *College of Marine Life Science, Ocean University of China, Qingdao, China*

Y. Zheng - *College of Marine Life Science, Ocean University of China, Qingdao, China*

X. Tang - *College of Marine Life Science, Ocean University of China, Qingdao, China*

## خلاصه مقاله:

Because of the importance of rotifers as an adequate live food in larviculture, this study was conducted to evaluate probiotic potency of four microorganisms, *Candida parapsilosis*, *Pseudoalteromonas flavipulchra*, *Lactobacillus sakei* and *Bacillus natto* on suppression of *Vibrio* species and increasing population growth, enzymes activity and nutrients retention in the rotifer, *Brachionus plicatilis*. Four experimental and a control treatment, each with four replicates, with the concentration of  $10^8$  CFU/mL<sup>-1</sup> for each strain were applied. The results demonstrated that *L. sakei* and *B. natto* successfully suppressed *Vibrio* in experimental treatments and increased population growth and nutrients retention. The longevity of *B. natto* was recorded as the best in long-term inoculation than other treatments and the control in a way that after 8 days of rotifers starvation, the count of *B. natto* increased. The findings showed that the two bacteria, *B. natto* and *L. sakei*, appear to be a promising probiotic for rotifers in suppressing *Vibrio* and also in increasing population growth, nutrients retention, enzymes activity and long-term inoculation in rotifers.

## کلمات کلیدی:

.Rotifer, Suppression, *Vibrio*, Enzyme, *Brachionus*, Probiotic

## لینک ثابت مقاله در پایگاه سیویلیکا:

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