

## عنوان مقاله:

Protection of juvenile *Penaeus indicus* from *Vibrio parahaemolyticus* infection by *Bacillus subtilis*

## محل انتشار:

اولین کنگره بین المللی مدیریت بهداشتی و بیماریهای آبزیان (سال: 1387)

تعداد صفحات اصل مقاله: 1

## نویسندگان:

M Avakh Keysami - *Technical and Vocational Higher Education Center of Jihad-Agriculture Ministry, Bushehr*

M Soltani - *Department of Aquatic Health, Faculty of Veterinary, University of Tehran, Iran*

E Sharifpour - *Department of Aquatic Health, Iranian Fisheries Research Institute*

M Mohamadpour - *Department of Research Management, Bushehr University of Medical Sciences, Iran*

## خلاصه مقاله:

**Objective:** The objective of present study was to investigate the potential probiotic properties of *Bacillus subtilis* in *Penaeus indicus*. **Method & Materials:** *Bacillus subtilis* bacterium isolated from intestine of *P. indicus* juveniles were added to pelleted feed as a probiotic at level 10<sup>10</sup> cfu/g feed by soaking method. After 60 days feeding trial with *Bacillus* supplemented and non-supplemented control feeds, *P. indicus* from 0.429± 0.014g exhibited significant differences ( $P<0.05$ ), between *Bacillus* and control groups in growth and survival. Sixty days after the start of the *Bacillus* feeding, the prawns were challenged by bath exposure to *Vibrio parahaemolyticus* (10<sup>7</sup> cell/ ml), for 28 days. **Results & Conclusion:** Two weeks after challenging, cumulative mortality was significantly ( $P<0.05$ ) reduced in probiotic treated group. Probiotic treated group had 88.33% survival rate; whereas the control group had only 20.83% survival. In addition, the control group had an unhealthy external appearance, while treated group prawn, appeared healthy and normal. From this, it was concluded that the selected *Bacillus* sp. may be a promising probiotic to protect *P. indicus* from infection with *Vibrio parahaemolyticus*.

## کلمات کلیدی:

*Penaeus indicus*; Probiotic; Challenge test; *Vibrio parahaemolyticus* infection

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/65364>

