

عنوان مقاله:

Inoculation of probiotic bacillus into the cultivation system of common carp (*Cyprinus carpio*) larvae for promotion of productivity rate and of *Artemia nauplii*

محل انتشار:

کنفرانس بین المللی توسعه پایدار، راهکارها و چالش ها با محوریت کشاورزی، منابع طبیعی، محیط زیست و گردشگری (سال: 1393)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

The blend of two probiotic bacilli, *Bacillus circulans* and *B. licheniformis* were inoculate into the rearing tanks of common carp on exploitation of three live food and feeding and growth efficiency. *Artemia urmiana*, *Artemia franciscana* and *Artemia parthenogenetica* nauplii were fed by common carp larvae with initial body weight, 111011 mg for 12 days at feeding rate of 13% of body weight. In treatments C-P, C-F and C-U the common carp larvae were fed with *Artemia parthenogenetica*, *A. franciscana* and *A. urmiana* nauplii respectively and in probiotic treatments (C-P-B, C-F-B and C-U-B) the fish larvae were fed with these *Artemia* nauplii and two probiotic bacteria (*B. circulans* and *B. licheniformis*) at a concentration of 1×10^6 CFU/liter were then inoculated to the rearing tanks. In the final of experiment the results indicated that the Within treatments, final body weight (FBW), Specific growth rate (SGR), thermal growth coefficient (TGC), daily growth coefficient (DGC), Relative gain rate (RGR) were affected by probiotic bacillus ($P < 0.01$). The results indicated that the using probiotic in rearing tanks of Common Carp larvae significantly ($p < 0.01$) promoted levels of dry matter in treatments of C-P-B and C-U-B in comparison with other treatments and highest dry matter (1003%) was obtained in treatment of G.P-Bacteria while in treatment of C-P and C-F were significantly ($P < 0.01$) lower than other treatments. The minimum of dry matter (1.0.13) was observed in treatment of C-P. The maximum of crude lipid level (110.23) was obtained in treatment of C-P-B where the common carp larvae were fed with *Artemia parthenogenetica*. The inoculation of probiotic bacillus into the rearing system tanks of common carp larvae significantly increased ($P < 0.01$) the crude energy of carcass common carp larvae in treatment of C-P-B where common carp larvae were feeding by *Artemia parthenogenetica* nauplii with inoculated bacilli in water of rearing system. Generally the best exploitation performance of common carp larvae was obtained by (feeding of *Artemia parthenogenetica* nauplii in trial of probiotic (C-P-B).

کلمات کلیدی:

common carp, probiotic bacilli, live food, *Artemia*, rearing tanks, crude lipid

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