本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

863课题进展

海洋酵母培育仿刺参Apostichopus japonicus浮游幼体研究

赵玉明1,毛玉泽2

1.青岛农业大学动物科技学院, 山东 青岛 266109; 2.中国水产科学研究院黄海水产研究所, 山东 青岛 266071 摘要:

采用海洋酵母(Rhodotorula sp.)作为单细胞藻类的替代饵料培育仿刺参(Apostichopus Japonicus)浮游幼体。从生长速度(G)、浮游期成活率(SRP)、变态成活率(SRM)、特定生长率(SGR)和40%樽形幼体出现时间(T)等5个指标比较了海洋酵母组(Z9)与不同种类和比例单胞藻混合饵料组(8个组合,Z1~Z8)的投喂效果;并确定了不同发育阶段海洋酵母的最佳投喂组合。结果表明:海洋酵母能够促进刺参幼体的正常发育和变态。ANOVA分析表明,不同饵料组间的生长和变态率等指标差异显著,Z2和Z9两组间差异不显著,但显著优于其他单胞藻混合组。投喂不同数量的海洋酵母对浮游幼体也有显著影响。

关键词: 海洋酵母 仿刺参Apostichopus japonicus 幼体 生长 变态

Studies on Culturing *Apostichopus japonicus* Auricularia with Marine Yeast as Feed

ZHAO Yu-ming ¹, MAO Yu-ze ²

1.College of Animal Science, Qingdao Agricultural University, Shandong Qingdao 266109|2.Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, Shandong Qingdao 266071, China Abstract:

Marine yeast (*Rhodotorula* sp.) was used as an alternative bait of single-cell microalgae to culture Apostichopus japonicus auricularia. By five indicators of growth rate (G), the survival rate of planktonic period (SRP), survival rate of metamorphosis (SRM), specific growth rate (SGR) and 40% bottle—shaped larvae time (T), the effect of feeding with marine yeast group (Z9) was compared with that of by different types and proportion of single—cell microalgae mixed feed groups (altogether 8 combinations, from Z1 to Z8), and confirmed the optimum feeding combination in different growth phases with marine yeast. The results showed that marine yeast could promote the normal development and metamorphosis of larvae ANOVA analysis indicated that there were significant differences in the targets for growth and survival rate among different diet groups. There were no significant differences between groups Z2 and Z9, but the effect of these 2 groups were notably better than the other single-cell microalgae mixed groups. Besides, different feeding quantities also had significant influences on auricularia.

Keywords: marine yeast *Apostichopus japonicus* auricularia growth metamorphosis

收稿日期 2009-01-17 修回日期 2009-02-10 网络版发布日期 2009-06-15

DOI:

基金项目:

国家863计划项目(2006AA10Z414);海洋公益性行业科研专项经费项目(200805069)资助。

通讯作者:毛玉泽,副研究员,博士,硕士生导师,主要从事海水养殖生态学研究。E-mail: maoyuze@263.net作者简介:赵玉明,博士,研究方向为无脊椎动物遗传育种与养殖。E-mail: zhaoyuming556594@163.com作者Email:

参考文献:

本刊中的类似文章

- 1. 黄俊,丁宏标,赵国琦.海藻糖对AA肉鸡生长及屠宰性能的影响[J]. 中国农业科技导报, 2009,11(4): 58-63
- 2. 李锋,毛玉泽,于守团,杜美荣,叶乃好,方建光.充气在几种饵料单细胞藻二级培养中的应用[J]. 中国农业科技导报, 2008,10(2): 94-99

扩展功能

本文信息

- ▶ Supporting info
- PDF(436KB)
- ▶ [HTML全文]
- ▶参考文献[PDF]
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

本文关键词相关文章

- ▶海洋酵母
- 仿刺参Apostichopus japonicus
- ▶ 幼体
- ▶生长
- ▶ 变态

本文作者相关文章 PubMed

- 3. 孙金英,曹宏鑫,黄云.光谱技术在作物生长与营养信息监测方面的研究进展[J]. 中国农业科技导报, 2008,10 (S1): 18-24
- 4. 李银科,刘世增,贺访印,张德魁.土壤类型对沙葱幼苗出土和生长的影响[J]. 中国农业科技导报, 2009,11(1):

108-112

文章评论

反馈人	邮箱地址	
反馈标题	验证码	8327

Copyright by 中国农业科技导报