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摇床速度、初始接种量和pH值对粉拟青霉生长的影响

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Studies on the impact of rotate speed of rocking bed,initial inoculum and initial pH value on mycelial bioass of *Paecilomyces farinosus*

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全文: PDF (703 KB) HTML (KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 在2℃下同一种培养液中,研究了摇床转速、接种量和初始pH值对粉拟青霉菌丝生长量的影响.结果表明粉拟青霉是一种好气性真菌,摇床转速大于10r/min有利于该菌生长;接种量对菌丝最大产量影响不大,但是能够影响菌丝量达到最大值的时间;接种量大于%,有利于菌丝产量迅速达到最大值;粉拟青霉菌在pH值为3～10的培养基中都能够生长,生长过程中能够分泌代谢产物主动调节pH值,该菌在pH为～7的微酸环境中生长最快;液体发酵过程中粉拟青霉生长量与发酵时间的关系符合逻辑斯蒂生长模型.

关键词： 粉拟青霉菌 发酵条件 菌丝生长量

Abstract： The isolate *Paecilomyces farinosus* sw03032 was cultured in a same liquid medium at 25℃ and the impact of rotate speed of rocking bed,initial inoculum and initial pH value on mycelial bioass were studied.The results indicated *Paecilomyces farinosus* was aerobic fungus and rotate speed of rocking bed exceeded 150r/min would benefit the mycelium growth.Initial inoculum could affect the time of reaching maximal mycelial bioass and could not affect the maximal mycelial bioass.inoculum exceeding 5% would benefit this fungus to reach maximal bioass in shorter time.This fungus could grow in a pH from 3-10 liquid media.However,it grow faster in pH ranging from 5-7 media.The experimental results also indicated in liquid media,the growth model of this fungus accorded with Logistic growth model.

Key words： *Paecilomyces farinosus* ferment conditions mycelial bioass

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