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展青霉素产生菌对中药材的侵染及其毒素生物合成的研究

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中文摘要:目的: 研究展青霉素产生腐对不同种类药材侵染的影响以及毒素积累规律。 方法: 采用微生物学及HPLC的分析方法研究不同环境条件下展青霉素产生腐皮染及毒素生物合成的特性。 结果: 展青霉素产生腐容易侵染富含淀粉以及其他糖类物质的药材。 结果: 展青霉素产生腐容易侵染富含淀粉以及其他糖类物质的药材。 在22 ℃ 55% 温度原加炭的条件下隔件生长良好-毒素产量较高。故能的光照度对菌体生长和毒素生物合成没有明显的影响水。 进行转记录 计表记录 13 元素 13 元素 14 元素 15 元素 16 元素 1 的实践指导意义,为建立中药安全性的系统评价体系奠定基础。

中文关键词:展青霉素 药材 侵染

Research on patulin biosynthesis and infection of Chinese medicinal materials by its producing strains

Abstract: Objective: To investigate the effect of patulin producing strains on the different Chinese medicinal materials and the toxin Abstract-Objective: To investigate the effect of pathlin producing strains on the different Chinese medicinal materials and the toxin biosynthesis mechanism. Method: Microbiology and HPLC analytical methods were adopted in this paper. Result: It was showed that the materials rich in starch and other polysaccharides were easily polluted by the pathlin producing strain. This strain grew well and produced more toxins under 25°C; 95% moisture content and bulk package. And the effect of low illumination intensity on the strain growth and toxin biosynthesis was not notable. Sample stability, precision, repeatability and rate of recovery were studied. HPLC analytemethod was established and it revealed that the test method was suitable. Conclusion: The pollution of Chinese medicinal materials by toxin producing microbes will be effectively controlled through establishing the suitable storage methods. So the study on the growing characteristics and toxin biosynthesis mechanism of toxin producing strains will be an important practical significance for controlling the toxin pollution of herbal medicines and contribute to establish the evaluation system of Chinese medicine safety.

keywords:patulin Chinese medicinal materials infection

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