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前植物生产层

非共生固氮菌株BC2接种冰草的研究

郑红丽,樊明寿,庞保平

摘要: 选用从内蒙古锡林郭勒天然草原冰草(Agroropyrom cristatum)根际分离获得的固氮菌株BC2进行室内接种效果研究。结果表明,接种BC2后冰草植株干质量增加,整个体系中固氮量比未接种冰草增加42.55 mg/kg;土壤灭菌后接种效果更为明显,体系总氮含量增加80.95 mg/kg,是未灭菌处理的近2倍;同时增加碳源于土壤可提高BC2的固氮效率。

关键词: 固氮菌株 接种 冰草

Inoculation of non symbiotic azotobacteria BC2 to Agroropyrom cristatum

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Abstract: An experiment was conducted to determine the effect of inoculation of non symbiotic azotobacteria BC2 isolating from wheatgrass (Agropyrom cristatum) on the growth and fixing nitrogen. The results of this study showed that BC2 inoculation increased the dry weight of wheatgrass and nitrogen fixing capability with 42.55 mg/kg in the entire system when compared to the control. The effectiveness of inoculation was better due to soil sterilization and the total nitrogen content of sterilized soil with 80.95 mg/kg was twice of the unsterilized soil. This study also showed that BC2 inoculation improved the N fixation efficiency via increasing the soil carbon source.

Keywords: azotobacteria inoculation Agroropyrom cristatum

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