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后生物生产层

草地早熟禾根际胶质芽孢杆菌的分离及鉴定

张晓波, 赵艳

摘要:

从草地早熟禾(*Poa pratensis*)根际土壤中筛选到7株胶质芽孢杆菌(*Bacillus mucilaginosus*), 对其形态学和生理生化特性、耐盐性、耐酸碱性、温度敏感性等特性进行了测定。结果表明, 这些菌株均为革兰氏阴性杆菌, 产生圆形芽孢和丰厚的荚膜; 过氧化氢酶、溶菌酶试验阳性, 能水解淀粉, V.P反应、卵磷脂酶均为阴性, 不产生吲哚。供试菌株在NaCl质量分数为1%~2%的硅酸盐培养基上能够生长; 在25-30 °C供试菌株均能良好生长。

关键词: 草地早熟禾; 胶质芽孢杆菌; 生物学特性

Isolation and identification of *Bacillus mucilaginosus* from rhizosphere of Kentucky bluegrass

Abstract:

Seven strains of *Bacillus mucilaginosus* were screened from rhizosphere soil of Kentucky bluegrass, and their physiological and biochemical characters, salt tolerance, acid and alkali resistance, and temperature sensitivity were determined in this study. The results of this study showed that all strains were G-, produced circular gemma and thick capsule. The catalase and lysozyme test on seven strains of *Bacillus mucilaginosus* were masculine. The hydrolyzed starch, V.P lecithinase and indole test on seven strains of *Bacillus mucilaginosus* were feminine. All strains survived in the medium with 1%~2% NaCl and grew well under the temperature ranging from 25-30 °C.

Keywords: *Bacillus mucilaginosus* biological character

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