

不同基因型决明属牧草耐铝性研究

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摘要:

在铝质量浓度为90 mg/L下, 对10个不同基因型决明*Chamaecrista* spp.牧草进行溶液培养。通过农艺性状、主根伸长率、株高增长率、根系电导率、根系活力和脯氨酸含量变化测定, 研究不同基因型决明的耐铝性差异。试验结果表明, 86134R2、86134R3、86134R1、2204属于耐铝毒的决明基因型; 34721R1、34721R2、34721F7、34721F4决明基因型耐铝毒能力中等; 92985R1、92985R2属于铝敏感决明基因型。

关键词: 决明; 基因型; 牧草; 耐铝性

Study on Aluminum tolerance of different genotypes of *Chamaecrista*

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Abstract:

Ten different genotypes of *Chamaecrista* were cultivated in 90 mg/L concentration of Al^{3+} , and difference in Aluminum tolerance of genotypes was studied by measuring agronomic characteristics, elongation rates of main root, growth rates of plant height, roots conductivity, root activities and proline contents change. The resulted showed that the genotypes of 86134R2, 86134R3, 86134R1 and 2204 had strong Aluminum tolerance, the genotypes of 34721R1, 34721R2, 34721F7 and 34721F4 had medium Aluminum tolerance, the genotypes of 92985R2 and 92985R1 were sensitive.

Keywords: *Chamaecrista* genotype forage Aluminum tolerance

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