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植物生产层

白三叶×高加索三叶草F1代茎段离体培养器官发生的研究

黄帆, 王明玖, 何丽君, 陈丽丽

摘要:

以白三叶*Trifolium repens*×高加索三叶草*T. ambiguum*未成熟胚离体培养产生的F1代无菌苗的茎段为外植体, 进行不定芽途径的直接器官发生培养。筛选适宜的诱导、分化及生根培养基, 研究不同质量浓度激素组合对体细胞器官发生的影响, 为建立扩繁体系及之后的回交试验奠定基础。结果表明: MS+2,4 D 0.1 mg/L、6 BA 2 mg/L为适宜的诱导培养基, MS+NAA 0.5 mg/L、6 BA 1 mg/L、KT 1 mg/L为适宜的分化培养基, 不添加任何激素的1/2MS培养基为适宜的生根培养基。

关键词: 高加索三叶草; 白三叶; 杂交F1代; 组织培养; 器官发生

Study on organogenesis of stem segments in vitro of F1 generation of *Trifolium ambiguum*×*T. repens*

HUANG Fan, WANG Ming jiu, HE Li jun, CHEN Li li

Abstract:

Stems of the hybrid F1 generation of *Trifolium ambiguum*×*T. repens* from immature embryos in vitro was used as the explants to culture the adventitious buds through the way of direct organogenesis. The suitable induction, differentiation and rooting medium were selected and the effect on organogenesis with different concentrations of hormone combinations was studied in order to prepare for the establishment of propagations system and subsequent backcross experiment. The results showed that the MS+2,4 D 0.1 mg/L+6 BA 2 mg/L was the appropriate induction media, the MS+NAA 0.5 mg/L+6 BA 1 mg/L+KT 1 mg/L was the appropriate differentiation medium, and the 1/2MS medium which had no any hormones was the suitable rooting medium.

Keywords: *Trifolium ambiguum*; *Trifolium repens*; hybrid F1; tissue culture; organogenesis

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