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研究报告

丹参丛生芽诱导和植株的高频再生(英文)

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[1]中国农业科学院生物技术研究所,北京100081 [2]中国农业科学院草原研究所,呼和浩特010010 摘要:

对丹参直接芽再生系统进行研究,探讨不同基因型、外植体类型(幼茎,下胚轴和叶)和BA、IBA及蔗糖的浓度对其不定芽诱导、伸长和生根的影响。结果表明,来自丹参99-5幼苗的叶外植体芽诱导率最大。诱导芽再生的最佳培养基为MS+0.1mg·L^-1BA,在该培养基上培养30 d的外植体可获得最多的不定芽。将再生芽转移到MS+0.1mg·L^-1BA培养基上进行伸长培养,当芽长至3.5 cm时,将其转移至1/2 MS+1.0mg·L^-1IBA+10%蔗糖的培养基中诱导生根。

关键词: 丹参 不定芽 叶外植体 再生

Buds Induction and High-frequency Plant Regeneration of |Salivia miltiorrhiza Bunge

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Abstract:

A direct induction of adventitious buds and in vitro plantlet regeneration system for Salivia miltiorrhiza Bunge was optimized by studying the influences of genotype, explants type (young stem, petiole and leaf) and different concentration of BA, IBA and surcose. Leaf explants from 99-5 seedlings showed maximum buds induction. The plant growth regulator BA (0. 1 mg·L^-1) was effective in stimulating shoot regeneration from leeaf explants of S. miltiorrhiza. The highest efficiency of bud formation was observed with a 30-day culture in MS containing 1.0 mg·L^-1 BA. The regenerated buds were transferred to MS medium containing 0.1 mg·L^-1 BA for elongation. When the shoots were about 3.5 cm in height, they were transferred to 1/2-strengh MS medium supplemented with 1.0 mg·L^-1 IBA and 10% sucrose to induce rooting.

Keywords: Salivia miltiorrhiza Bunge adventitious bud leaf explant regeneration

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