

عنوان مقاله:

In vitro propagation of *Physalis alkekengi* using axillary bud explants

محل انتشار:

بیستمین کنگره ملی و هشتمین کنگره بین‌المللی زیست‌شناسی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Chinese lantern (*Physalis alkekengi*), due to its physalin, is known as an important medicinal herb. This plant widely is used to treat various diseases. Therefore, developing a repeatable micropropagation method for this plant would be valuable. In this study, shoot tip and axillary buds of Chinese lantern treated with different growth regulators (IAA, NAA, and BAP) with various concentrations and combinations. The experiment carried out in complimentary randomized design with 5 repeats. The seeds were put in MS medium after treating at low temperature for a week for germination. Explants of lateral buds were prepared from one-month seedlings and put in the culture medium. After a month, a number of shoots, shoot length and number of internodes were recorded for each treatment and data were analyzed statistically using SPSS. In another experiment effects of culture-media salt strength was investigated. The results showed that using axillary bud as an explant in full strength MS supplemented with 0.5 or 2 mg/l BAP alone or .in combination with 0.5 mg/l IAA gives the highest shoot induction percent, internodes and shoot length

کلمات کلیدی:

Chinese lantern, Organogenesis, Micropropagation, Axillary buds

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