

ABSTRAK

PENGARUH TAKARAN BUBUR PISANG (*Musa paradisiaca*) PADA MEDIA *MURASHIGE AND SKOOG* TERHADAP PERTUMBUHAN PLANLET KRISAN (*Dendranthema grandiflora* Tzvelev) SECARA *IN VITRO*

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Bubur pisang merupakan bahan organik yang mengandung beberapa nutrisi penting untuk mempercepat pertumbuhan planlet dalam kultur *in vitro*. Penelitian ini bertujuan untuk mengetahui pengaruh takaran bubur pisang pada media MS terhadap pertumbuhan planlet krisan secara *in vitro*. Penelitian ini dilaksanakan di Laboratorium Kultur Jaringan Balai Benih Hortikultura pada bulan April sampai bulan Juni 2021. Penelitian ini menggunakan Rancangan Acak Lengkap dengan 5 perlakuan takaran bubur pisang yang ditambahkan ke dalam media $\frac{1}{2}$ MS yaitu 0 g/L, 25 g/L, 50 g/L, 75 g/L, 100 g/L. Setiap perlakuan diulang sebanyak 5 kali. Hasil penelitian menunjukkan bahwa penambahan bubur pisang pada media $\frac{1}{2}$ MS berpengaruh baik terhadap pertumbuhan planlet krisan (*Dendranthema grandiflora* Tzvelev) secara *in vitro*. Penambahan bubur pisang takaran 25 g/L sampai 100 g/L menunjukkan pengaruh yang sama terhadap pertumbuhan planlet krisan secara *in vitro*.

Kata kunci: Krisan, bubur pisang, kultur jaringan

ABSTRACT

EFFECT OF BANANA PORRIDGE (*Musa paradisiaca*) ON MURASHIGE AND SKOOG MEDIA ON THE GROWTH OF CHRYSANTHEMUM PLANLETS (*Dendranthema grandiflora* Tzvelev) IN VITRO

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Banana porridge is an organic ingredient that contains several essential nutrients to accelerate the growth of the plant in in vitro culture. This study aims to find out the effect of banana pulp dose on MS media on the growth of chrysanthemum plantlet in vitro. This research was conducted at the Horticultural Seed Center's Tissue Culture Laboratory from April to June 2021. This study used a Complete Randomized Design with 5 dose treatments of banana porridge added to the medium of ½ MS which is 0 g/L, 25 g/L, 50 g/L, 75 g/L, 100 g/L. Each treatment is repeated 5 times. The results showed that the addition of banana porridge to the medium of ½ MS had a good effect on the growth of chrysanthemum plantlet (*Dendranthema grandiflora* Tzvelev) in vitro. The addition of banana porridge doses of 25 g/L to 100 g/L showed the same effect on the growth of chrysanthemum plantlets in vitro..

Keywords: Chrysanthemum, banana porridge, tissue culture