

INTISARI

Penelitian ini bertujuan untuk mendapatkan jenis medium dan konsentrasi BAP terbaik untuk pertumbuhan tunas Anggrek *Vanda tricolor*. Penelitian dilakukan di Laboratorium Kultur *In vitro* Fakultas Pertanian, Universitas Muhammadiyah Yogyakarta dari bulan Agustus sampai dengan Oktober 2018. Metode penelitian menggunakan metode percobaan laboratorium yang disusun dalam Rancangan Acak Lengkap (RAL) faktor tunggal dengan perlakuan yang diujikan adalah kombinasi dari medium NDM (*New Doghasima Medium*), VW (*Vacin and Went*), MS (*Murashige and Skoog*) dan konsentrasi BAP (*Benzylaminopurine*) yaitu 0, 0.5, dan 1 mg/l. Setiap perlakuan diulang 10 kali, sehingga diperoleh 90 unit perlakuan. Tiap perlakuan ditambahkan NAA (*Napthalane Acetic Acid*) 0,5 mg/l dan arang aktif 0,2g/l serta PPM (*plant perservative mixure*) 0,5 ml/l. Parameter pengamatan pada penelitian ini antara lain, persentase eksplan hidup, persentase eksplan *browning*, persentase eksplan terkontaminasi, waktu eksplan *browning*, waktu eksplan terkontaminasi, jumlah tunas tiap perlakuan, dan tinggi tunas eksplan. Hasil penelitian menunjukkan bahwa jenis medium MS (*Murashige and Skoog*) dan konsentrasi BAP (*Benzylaminopurine*) 0,5 mg/l merupakan kombinasi terbaik pada pertumbuhan tunas Anggrek *Vanda tricolor* ditunjukkan pada parameter Jumlah Daun dan Tinggi Tunas.

Kata kunci : Jenis Media, Kultur *In vitro*, Tunas, BAP, Anggrek *Vanda tricolor*.

ABSTRACT

This research to obtain the best type of medium and BAP concentration for the growth of Vanda tricolor orchid buds. The research was conducted at the In vitro Culture Laboratory of the Faculty of Agriculture, Yogyakarta Muhammadiyah University from August to October 2018. The research method used laboratory experimental methods arranged in a single Randomized Complete Design (CRD) with the treatment being tested was a combination of NDM (New Doghasima Medium), VW (Vacin and Went), MS (Murashighe and Skoog) and BAP (Benzylaminopurine) concentrations are 0, 0.5, and 1 mg / l. Each treatment was repeated 10 times, so that 90 treatment units were obtained. Each treatment was added 0.5 mg / l NAA (Naphthalane Acetic Acid) and 0.2g / l active charcoal and 0.5 ml / PPM (plant perservative mixture). Observation parameters in this research include, the percentage of live explants, the percentage of browning explants, the percentage of explants being contaminated, the browning explant time, the explant time contaminated, the number of shoots per treatment, and the height of explant shoots. The results showed that the type of MS medium (Murashighe and Skoog) and BAP (Benzylaminopurine) concentration of 0.5 mg / l was the best combination on the growth of Vanda tricolor orchid buds shown in the number of leaves and shoot height parameters.

Keywords: Kind of Medium, Benzylaminopurine, In vitro Culture, Buds, Orchid Vanda tricolor.